



**OIL-AIR
PRODUCTS**
FLUID POWER SPECIALISTS

2025 EDITION HYDRAULIC CYLINDERS





2 YEARS LIMITED WARRANTY

Oil-Air Products warrants only products of its manufacture against operational failure occurring during normal use and caused by defective materials or workmanship in its product. This warranty does not apply to products that have been modified, repaired or used in abusive conditions. This warranty does not cover normal wear or wear caused by contamination.

The 24 month period of warranty begins at the product's date of manufacture.

Oil-Air Products obligation is to replace free of charge any part of its product that its inspection shows to be defective.

Oil-Air Products shall not be liable for loss of time, manufacturing costs, labor, material, loss of profits, consequential damages, direct or indirect, because of defective products, whether due to rights arising under the contract of sale or independently thereof, and whether or not such claim is based on contract, tort or warranty.

Any warranty return requires an RGA number issued by Oil-Air Products warranty department.

(This warranty voids all previous issues.) (Effective Date: January 2025)



TABLE OF CONTENTS

WELDED BUSHING - WBU - 3000 PSI WP	04
Dimensions	06
Breakdown	10
WELDED FEMALE CLEVIS - WCL - 3000 PSI WP	07
Dimensions	09
Breakdown	10
WELDED THROUGH HOLE - WTH - 3000 PSI WP	11
Dimensions	13
Breakdown	14
ADJUSTABLE FEMALE CLEVIS - WACL - 3000 PSI WP	15
Dimensions	17
Breakdown	18
TIE-ROD CLEVIS - TTR25 - 2500 PSI WP	19
Dimensions	21
Breakdown	22
TIE-ROD CLEVIS - TTR30 - 2500 PSI WP	23
Dimensions	25
Breakdown	26
INVERTED TELESCOPIC CYLINDERS	27
HYDRAULIC SNOW PLOW CYLINDERS	28
CYLINDER COMPONENTS	29
SEAL KITS	34



WELDED BUSHING

PART NUMBER	BORE X STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS*	COLUMN LOAD (LBS)	PRESSURE (PSI)	WEIGHT (LBS)
		RETRACTED	EXTENDED						
WBU-1504-S	1.5" X 4"	12"	16"	1"	3/4"	SAE 4	5300	3000	8
WBU-1506-S	1.5" X 6"	14"	20"				5300	3000	9
WBU-1508-S	1.5" X 8"	16"	24"				5300	3000	10
WBU-1510-S	1.5" X 10"	18"	28"				5300	3000	11
WBU-1512-S	1.5" X 12"	20"	32"				5300	3000	13
WBU-1514-S	1.5" X 14"	22"	36"				5300	3000	14
WBU-1516-S	1.5" X 16"	24"	40"				5300	3000	15
WBU-1518-S	1.5" X 18"	26"	44"				4800	2700	16
WBU-1520-S	1.5" X 20"	28"	48"				4000	2300	18
WBU-1524-S	1.5" X 24"	32"	56"				3000	1700	20
WBU-2004-S	2" X 4"	12"	16"	1-1/4"	1"	SAE 6	9400	3000	12
WBU-2006-S	2" X 6"	14"	20"				9400	3000	13
WBU-2008-S	2" X 8"	16"	24"				9400	3000	15
WBU-2010-S	2" X 10"	18"	28"				9400	3000	17
WBU-2012-S	2" X 12"	20"	32"				9400	3000	19
WBU-2014-S	2" X 14"	22"	36"				9400	3000	20
WBU-2016-S	2" X 16"	24"	40"				9400	3000	22
WBU-2018-S	2" X 18"	26"	44"				9400	3000	24
WBU-2020-S	2" X 20"	28"	48"				9400	3000	25
WBU-2024-S	2" X 24"	32"	56"				7300	2300	29
WBU-2028-S	2" X 28"	36"	64"				5600	1700	32
WBU-2030-S	2" X 30"	38"	68"				4900	1500	34
WBU-2032-S	2" X 32"	40"	72"				4400	1400	36
WBU-2036-S	2" X 36"	44"	80"				3500	1100	39
WBU-2040-S	2" X 40"	48"	88"				2900	900	42
WBU-2048-S	2" X 48"	56"	104"				2100	600	49
WBU-2504-S	2.5" X 4"	12"	16"	1-1/2"	1"	SAE 8	14700	3000	16
WBU-2506-S	2.5" X 6"	14"	20"				14700	3000	18
WBU-2508-S	2.5" X 8"	16"	24"				14700	3000	20
WBU-2510-S	2.5" X 10"	18"	28"				14700	3000	22
WBU-2512-S	2.5" X 12"	20"	32"				14700	3000	25
WBU-2514-S	2.5" X 14"	22"	36"				14700	3000	27
WBU-2516-S	2.5" X 16"	24"	40"				14700	3000	29
WBU-2518-S	2.5" X 18"	26"	44"				14700	3000	31
WBU-2520-S	2.5" X 20"	28"	48"				14700	3000	34
WBU-2524-S	2.5" X 24"	32"	56"				14700	3000	38
WBU-2528-S	2.5" X 28"	36"	64"				11600	2300	43
WBU-2530-S	2.5" X 30"	38"	68"				10300	2100	45
WBU-2532-S	2.5" X 32"	40"	72"				9200	1800	47
WBU-2536-S	2.5" X 36"	44"	80"				7400	1500	51
WBU-2540-S	2.5" X 40"	48"	88"				6100	1200	56
WBU-2548-S	2.5" X 48"	56"	104"				4400	800	65

* OTHER PORTS AVAILABLE. CONTACT OIL-AIR PRODUCTS FOR ASSISTANCE.

NOTE : COLUMN LOAD IS THE MAXIMUM PUSHING LOAD SUGGESTED USING A MINIMUM SAFETY FACTOR OF 2 AND BASED ON A PIN TO PIN MOUNTING CALCULATION.



WELDED BUSHING									
PART NUMBER	BORE X STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS*	COLUMN LOAD (LBS)	PRESSURE (PSI)	WEIGHT (LBS)
		RETRACTED	EXTENDED						
WBU-3004-S	3" X 4"	12"	16"	1-1/2"	1"	SAE 8	21200	3000	19
WBU-3006-S	3" X 6"	14"	20"				21200	3000	22
WBU-3008-S	3" X 8"	16"	24"				21200	3000	24
WBU-3010-S	3" X 10"	18"	28"				21200	3000	27
WBU-3012-S	3" X 12"	20"	32"				21200	3000	29
WBU-3014-S	3" X 14"	22"	36"				21200	3000	32
WBU-3016-S	3" X 16"	24"	40"				21200	3000	34
WBU-3018-S	3" X 18"	26"	44"				21200	3000	36
WBU-3020-S	3" X 20"	28"	48"				20700	2900	39
WBU-3024-S	3" X 24"	32"	56"				15200	2100	44
WBU-3028-S	3" X 28"	36"	64"				11600	1600	49
WBU-3030-S	3" X 30"	38"	68"				10300	1400	51
WBU-3032-S	3" X 32"	40"	72"				9200	1300	54
WBU-3036-S	3" X 36"	44"	80"				7400	1000	59
WBU-3040-S	3" X 40"	48"	88"				6100	800	63
WBU-3048-S	3" X 48"	56"	104"				4400	600	73
WBU-3504-S	3.5" X 4"	14"	18"	1-3/4"	1-1/4"	SAE 8	28800	3000	27
WBU-3506-S	3.5" X 6"	16"	22"				28800	3000	30
WBU-3508-S	3.5" X 8"	18"	26"				28800	3000	33
WBU-3510-S	3.5" X 10"	20"	30"				28800	3000	36
WBU-3512-S	3.5" X 12"	22"	34"				28800	3000	39
WBU-3514-S	3.5" X 14"	24"	38"				28800	3000	42
WBU-3516-S	3.5" X 16"	26"	42"				28800	3000	45
WBU-3518-S	3.5" X 18"	28"	46"				28800	3000	48
WBU-3520-S	3.5" X 20"	30"	50"				28800	3000	51
WBU-3524-S	3.5" X 24"	34"	58"				26200	2700	57
WBU-3528-S	3.5" X 28"	38"	66"				20200	2100	64
WBU-3530-S	3.5" X 30"	40"	70"				18000	1800	67
WBU-3532-S	3.5" X 32"	42"	74"				16100	1600	70
WBU-3536-S	3.5" X 36"	46"	82"				13100	1300	76
WBU-3540-S	3.5" X 40"	50"	90"				10900	1100	82
WBU-3548-S	3.5" X 48"	58"	106"				7800	800	94
WBU-4004-S	4" X 4"	14"	18"	2"	1-1/2"	SAE 8	37600	3000	34
WBU-4006-S	4" X 6"	16"	22"				37600	3000	38
WBU-4008-S	4" X 8"	18"	26"				37600	3000	41
WBU-4010-S	4" X 10"	20"	30"				37600	3000	45
WBU-4012-S	4" X 12"	22"	34"				37600	3000	49
WBU-4014-S	4" X 14"	24"	38"				37600	3000	52
WBU-4016-S	4" X 16"	26"	42"				37600	3000	56
WBU-4018-S	4" X 18"	28"	46"				37600	3000	60
WBU-4020-S	4" X 20"	30"	50"				37600	3000	63
WBU-4024-S	4" X 24"	34"	58"				37600	3000	71
WBU-4028-S	4" X 28"	38"	66"				34600	2700	78
WBU-4030-S	4" X 30"	40"	70"				30700	2400	82
WBU-4032-S	4" X 32"	42"	74"				27500	2100	85
WBU-4036-S	4" X 36"	46"	82"				22400	1700	93
WBU-4040-S	4" X 40"	50"	90"				18600	1400	100
WBU-4048-S	4" X 48"	58"	106"				13400	1000	115

* OTHER PORTS AVAILABLE. CONTACT OIL-AIR PRODUCTS FOR ASSISTANCE.

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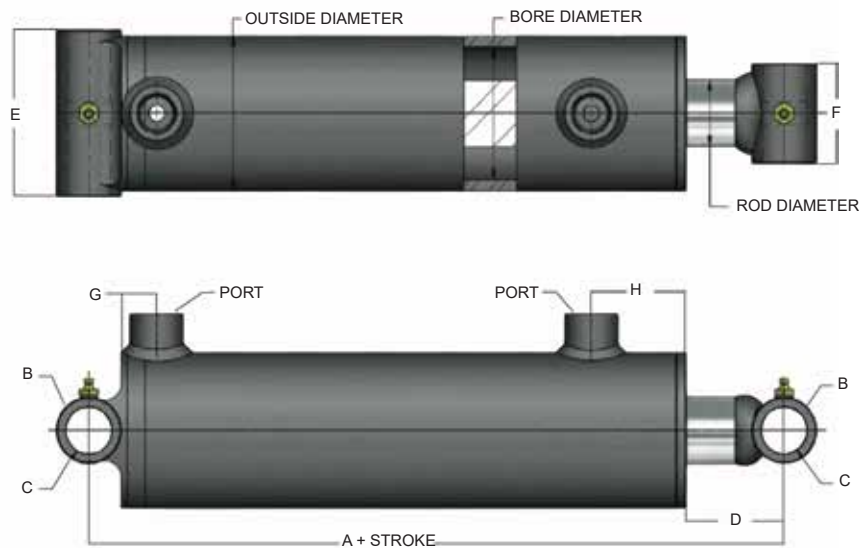


WELDED BUSHING

PART NUMBER	BORE X STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS*	COLUMN LOAD (LBS)	PRESSURE (PSI)	WEIGHT (LBS)
		RETRACTED	EXTENDED						
WBU-5004-S	5" X 4"	16"	20"	2-1/2"	1-3/4"	SAE 12	58900	3000	65
WBU-5006-S	5" X 6"	18"	24"				58900	3000	70
WBU-5008-S	5" X 8"	20"	28"				58900	3000	75
WBU-5010-S	5" X 10"	22"	32"				58900	3000	80
WBU-5012-S	5" X 12"	24"	36"				58900	3000	85
WBU-5014-S	5" X 14"	26"	40"				58900	3000	90
WBU-5016-S	5" X 16"	28"	44"				58900	3000	96
WBU-5018-S	5" X 18"	30"	48"				58900	3000	101
WBU-5020-S	5" X 20"	32"	52"				58900	3000	106
WBU-5024-S	5" X 24"	36"	60"				58900	3000	116
WBU-5028-S	5" X 28"	40"	68"				58900	3000	126
WBU-5030-S	5" X 30"	42"	72"				58900	3000	131
WBU-5032-S	5" X 32"	44"	76"				58900	3000	137
WBU-5036-S	5" X 36"	48"	84"				52100	2600	147
WBU-5040-S	5" X 40"	52"	92"				43400	2200	157
WBU-5048-S	5" X 48"	60"	108"				31500	1600	178

* OTHER PORTS AVAILABLE. CONTACT OIL-AIR PRODUCTS FOR ASSISTANCE.

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PART NUMBER	CYLINDER BORE	OUTSIDE DIAMETER	ROD DIAMETER	A	B	C	D	E	F	G	H	PORT
WBU-15-S	1.50"	2.00"	1.00"	8.00"	1.25"	0.76"	2.62"	2.25"	2.00"	1.06"	1.87"	SAE 4
WBU-20-S	2.00"	2.50"	1.25"	8.00"	1.50"	1.01"	2.25"	2.75"	2.25"	1.00"	2.06"	SAE 6
WBU-25-S	2.50"	3.00"	1.50"	8.00"	1.50"	1.01"	2.25"	3.25"	2.25"	0.81"	2.18"	SAE 8
WBU-30-S	3.00"	3.50"	1.50"	8.00"	1.50"	1.01"	2.25"	3.75"	2.25"	0.81"	2.18"	SAE 8
WBU-35-S	3.50"	4.00"	1.75"	10.00"	2.00"	1.26"	4.00"	4.25"	2.25"	0.81"	2.18"	SAE 8
WBU-40-S	4.00"	4.50"	2.00"	10.00"	2.25"	1.51"	3.75"	4.75"	2.50"	0.81"	2.18"	SAE 8
WBU-50-S	5.00"	5.50"	2.50"	12.00"	3.00"	1.76" **	3.50"	5.75"	3.25"	1.25"	2.75"	SAE 12

** BORE SIZE WITH INSERT INSTALLED. 2.01" WITH INSERT REMOVED

MAXIMUM RETRACTED WORKING PRESSURE = 3000 PSI

MAXIMUM EXTENDED WORKING PRESSURE = SEE TABLE

RETRACTED AND STROKE TOLERANCE $\pm 1/8"$

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WELDED FEMALE CLEVIS HYDRAULIC CYLINDERS 3000 PSI WP



WELDED FEMALE CLEVIS

PART NUMBER	BORE X STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS*	COLUMN LOAD (LBS)	PRESSURE (PSI)	WEIGHT (LBS)
		RETRACTED	EXTENDED						
WCL-1504-S	1.5" X 4"	12-1/4"	16-1/4"	1"	3/4"	SAE 4	5300	3000	8
WCL-1506-S	1.5" X 6"	14-1/4"	20-1/4"				5300	3000	9
WCL-1508-S	1.5" X 8"	16-1/4"	24-1/4"				5300	3000	11
WCL-1510-S	1.5" X 10"	18-1/4"	28-1/4"				5300	3000	12
WCL-1512-S	1.5" X 12"	20-1/4"	32-1/4"				5300	3000	13
WCL-1514-S	1.5" X 14"	22-1/4"	36-1/4"				5300	3000	14
WCL-1516-S	1.5" X 16"	24-1/4"	40-1/4"				5300	3000	15
WCL-1518-S	1.5" X 18"	26-1/4"	44-1/4"				4800	2700	17
WCL-1520-S	1.5" X 20"	28-1/4"	48-1/4"				4000	2200	18
WCL-1524-S	1.5" X 24"	32-1/4"	56-1/4"				2900	1600	20
WCL-2004-S	2" X 4"	14-1/4"	18-1/4"	1-1/4"	1"	SAE 6	9400	3000	14
WCL-2006-S	2" X 6"	16-1/4"	22-1/4"				9400	3000	16
WCL-2008-S	2" X 8"	20-1/4"	28-1/4"				9400	3000	18
WCL-2010-S	2" X 10"	20-1/4"	30-1/4"				9400	3000	19
WCL-2012-S	2" X 12"	22-1/4"	34-1/4"				9400	3000	21
WCL-2014-S	2" X 14"	24-1/4"	38-1/4"				9400	3000	23
WCL-2016-S	2" X 16"	26-1/4"	42-1/4"				9400	3000	25
WCL-2018-S	2" X 18"	28-1/4"	46-1/4"				9400	3000	26
WCL-2020-S	2" X 20"	30-1/4"	50-1/4"				9100	2900	28
WCL-2024-S	2" X 24"	34-1/4"	58-1/4"				6700	2100	31
WCL-2028-S	2" X 28"	38-1/4"	66-1/4"				5200	1600	35
WCL-2030-S	2" X 30"	40-1/4"	70-1/4"				4600	1400	36
WCL-2032-S	2" X 32"	42-1/4"	74-1/4"				4100	1300	38
WCL-2034-S	2" X 34"	44-1/4"	78-1/4"				3700	1100	40
WCL-2036-S	2" X 36"	46-1/4"	82-1/4"				3400	1000	42
WCL-2040-S	2" X 40"	50-1/4"	90-1/4"				2800	800	45
WCL-2048-S	2" X 48"	58-1/4"	106-1/4"				2000	600	52
WCL-2504-S	2.5" X 4"	14-1/4"	18-1/4"	1-1/2"	1"	SAE 8	14700	3000	18
WCL-2506-S	2.5" X 6"	16-1/4"	22-1/4"				14700	3000	20
WCL-2508-S	2.5" X 8"	20-1/4"	28-1/4"				14700	3000	24
WCL-2510-S	2.5" X 10"	20-1/4"	30-1/4"				14700	3000	25
WCL-2512-S	2.5" X 12"	22-1/4"	34-1/4"				14700	3000	27
WCL-2514-S	2.5" X 14"	24-1/4"	38-1/4"				14700	3000	29
WCL-2516-S	2.5" X 16"	26-1/4"	42-1/4"				14700	3000	32
WCL-2518-S	2.5" X 18"	28-1/4"	46-1/4"				14700	3000	34
WCL-2520-S	2.5" X 20"	30-1/4"	50-1/4"				14700	3000	36
WCL-2524-S	2.5" X 24"	34-1/4"	58-1/4"				14000	2800	40
WCL-2528-S	2.5" X 28"	38-1/4"	66-1/4"				10800	2200	45
WCL-2530-S	2.5" X 30"	40-1/4"	70-1/4"				9600	1900	47
WCL-2532-S	2.5" X 32"	42-1/4"	74-1/4"				8600	1700	49
WCL-2534-S	2.5" X 34"	44-1/4"	78-1/4"				7700	1500	52
WCL-2536-S	2.5" X 36"	46-1/4"	82-1/4"				7000	1400	54
WCL-2540-S	2.5" X 40"	50-1/4"	90-1/4"				5800	1100	58
WCL-2548-S	2.5" X 48"	58-1/4"	106-1/4"				4200	800	67

* OTHER PORTS AVAILABLE. CONTACT OIL-AIR PRODUCTS FOR ASSISTANCE.

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WELDED FEMALE CLEVIS HYDRAULIC CYLINDERS 3000 PSI WP



WELDED FEMALE CLEVIS									
PART NUMBER	BORE X STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS*	COLUMN LOAD (LBS)	PRESSURE (PSI)	WEIGHT (LBS)
		RETRACTED	EXTENDED						
WCL-3004-S	3" X 4"	14-1/4"	18-1/4"	1-1/2"	1"	SAE 8	21200	3000	22
WCL-3006-S	3" X 6"	16-1/4"	22-1/4"				21200	3000	24
WCL-3008-S	3" X 8"	20-1/4"	28-1/4"				21200	3000	27
WCL-3010-S	3" X 10"	20-1/4"	30-1/4"				21200	3000	29
WCL-3012-S	3" X 12"	22-1/4"	34-1/4"				21200	3000	31
WCL-3014-S	3" X 14"	24-1/4"	38-1/4"				21200	3000	34
WCL-3016-S	3" X 16"	26-1/4"	42-1/4"				21200	3000	36
WCL-3018-S	3" X 18"	28-1/4"	46-1/4"				21200	3000	39
WCL-3020-S	3" X 20"	30-1/4"	50-1/4"				18800	2600	41
WCL-3024-S	3" X 24"	34-1/4"	58-1/4"				14000	1900	46
WCL-3028-S	3" X 28"	38-1/4"	66-1/4"				10800	1500	51
WCL-3030-S	3" X 30"	40-1/4"	70-1/4"				9600	1300	53
WCL-3032-S	3" X 32"	42-1/4"	74-1/4"				8600	1200	56
WCL-3034-S	3" X 34"	44-1/4"	78-1/4"				7700	1100	58
WCL-3036-S	3" X 36"	46-1/4"	82-1/4"				7000	900	61
WCL-3504-S	3.5" X 4"	14-1/4"	18-1/4"	1-3/4"	1"	SAE 8	28800	3000	27
WCL-3506-S	3.5" X 6"	16-1/4"	22-1/4"				28800	3000	30
WCL-3508-S	3.5" X 8"	20-1/4"	28-1/4"				28800	3000	35
WCL-3510-S	3.5" X 10"	20-1/4"	30-1/4"				28800	3000	36
WCL-3512-S	3.5" X 12"	22-1/4"	34-1/4"				28800	3000	39
WCL-3514-S	3.5" X 14"	24-1/4"	38-1/4"				28800	3000	42
WCL-3516-S	3.5" X 16"	26-1/4"	42-1/4"				28800	3000	46
WCL-3518-S	3.5" X 18"	28-1/4"	46-1/4"				28800	3000	49
WCL-3520-S	3.5" X 20"	30-1/4"	50-1/4"				28800	3000	52
WCL-3524-S	3.5" X 24"	34-1/4"	58-1/4"				26000	2700	58
WCL-3528-S	3.5" X 28"	38-1/4"	66-1/4"				20100	2000	64
WCL-3530-S	3.5" X 30"	40-1/4"	70-1/4"				17900	1800	67
WCL-3532-S	3.5" X 32"	42-1/4"	74-1/4"				16000	1600	70
WCL-3534-S	3.5" X 34"	44-1/4"	78-1/4"				14400	1500	73
WCL-3536-S	3.5" X 36"	46-1/4"	82-1/4"				13000	1300	76
WCL-4004-S	4" X 4"	14-1/4"	18-1/4"	2"	1"	SAE 8	37600	3000	33
WCL-4006-S	4" X 6"	16-1/4"	22-1/4"				37600	3000	37
WCL-4008-S	4" X 8"	20-1/4"	28-1/4"				37600	3000	42
WCL-4010-S	4" X 10"	20-1/4"	30-1/4"				37600	3000	44
WCL-4012-S	4" X 12"	22-1/4"	34-1/4"				37600	3000	48
WCL-4014-S	4" X 14"	24-1/4"	38-1/4"				37600	3000	52
WCL-4016-S	4" X 16"	26-1/4"	42-1/4"				37600	3000	55
WCL-4018-S	4" X 18"	28-1/4"	46-1/4"				37600	3000	59
WCL-4020-S	4" X 20"	30-1/4"	50-1/4"				37600	3000	63
WCL-4024-S	4" X 24"	34-1/4"	58-1/4"				37600	3000	70
WCL-4028-S	4" X 28"	38-1/4"	66-1/4"				34300	2700	77
WCL-4030-S	4" X 30"	40-1/4"	70-1/4"				30500	2400	81
WCL-4032-S	4" X 32"	42-1/4"	74-1/4"				27300	2100	85
WCL-4034-S	4" X 34"	44-1/4"	78-1/4"				24600	1900	89
WCL-4036-S	4" X 36"	46-1/4"	82-1/4"				22200	1700	92

* OTHER PORTS AVAILABLE. CONTACT OIL-AIR PRODUCTS FOR ASSISTANCE..

NOTE : COLUMN LOAD IS THE MAXIMUM PUSHING LOAD SUGGESTED USING A MINIMUM SAFETY FACTOR OF 2 AND BASED ON A PIN TO PIN MOUNTING CALCULATION.

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WELDED FEMALE CLEVIS HYDRAULIC CYLINDERS 3000 PSI WP

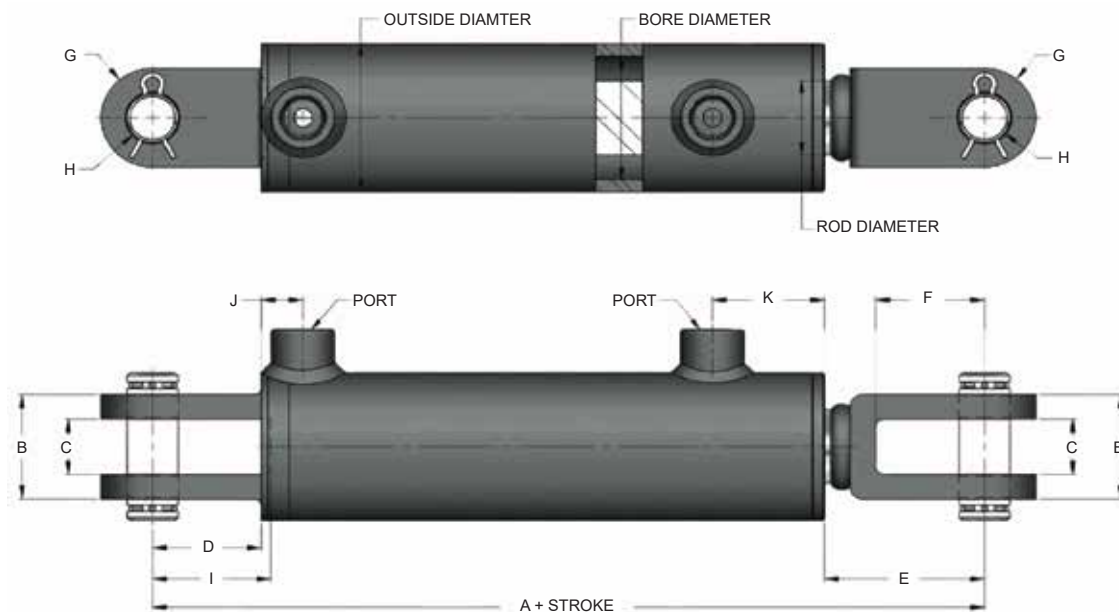


WELDED FEMALE CLEVIS

PART NUMBER	BORE X STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS*	COLUMN LOAD (LBS)	PRESSURE (PSI)	WEIGHT (LBS)
		RETRACTED	EXTENDED						
WCL-5004-S	5" X 4"	17"	21"	2-1/2"	1-1/2"	SAE12	58900	3000	64
WCL-5006-S	5" X 6"	19"	25"				58900	3000	69
WCL-5008-S	5" X 8"	21"	29"				58900	3000	74
WCL-5010-S	5" X 10"	23"	33"				58900	3000	79
WCL-5012-S	5" X 12"	25"	37"				58900	3000	84
WCL-5014-S	5" X 14"	27"	41"				58900	3000	89
WCL-5016-S	5" X 16"	29"	45"				58900	3000	95
WCL-5018-S	5" X 18"	31"	49"				58900	3000	100
WCL-5020-S	5" X 20"	33"	53"				58900	3000	105
WCL-5024-S	5" X 24"	37"	61"				58900	3000	115
WCL-5028-S	5" X 28"	41"	69"				58900	3000	125
WCL-5030-S	5" X 30"	43"	73"				58900	3000	130
WCL-5032-S	5" X 32"	45"	77"				58900	3000	136
WCL-5034-S	5" X 34"	47"	81"				56100	2800	141
WCL-5036-S	5" X 36"	49"	85"				50900	2500	146
WCL-5040-S	5" X 40"	53"	93"				42500	2100	156
WCL-5048-S	5" X 48"	61"	109"				30900	1500	177

* OTHER PORTS AVAILABLE. CONTACT OIL-AIR PRODUCTS FOR ASSISTANCE.

NOTE : COLUMN LOAD IS THE MAXIMUM PUSHING LOAD SUGGESTED USING A MINIMUM SAFETY FACTOR OF 2 AND BASED ON A PIN TO PIN MOUNTING CALCULATION.



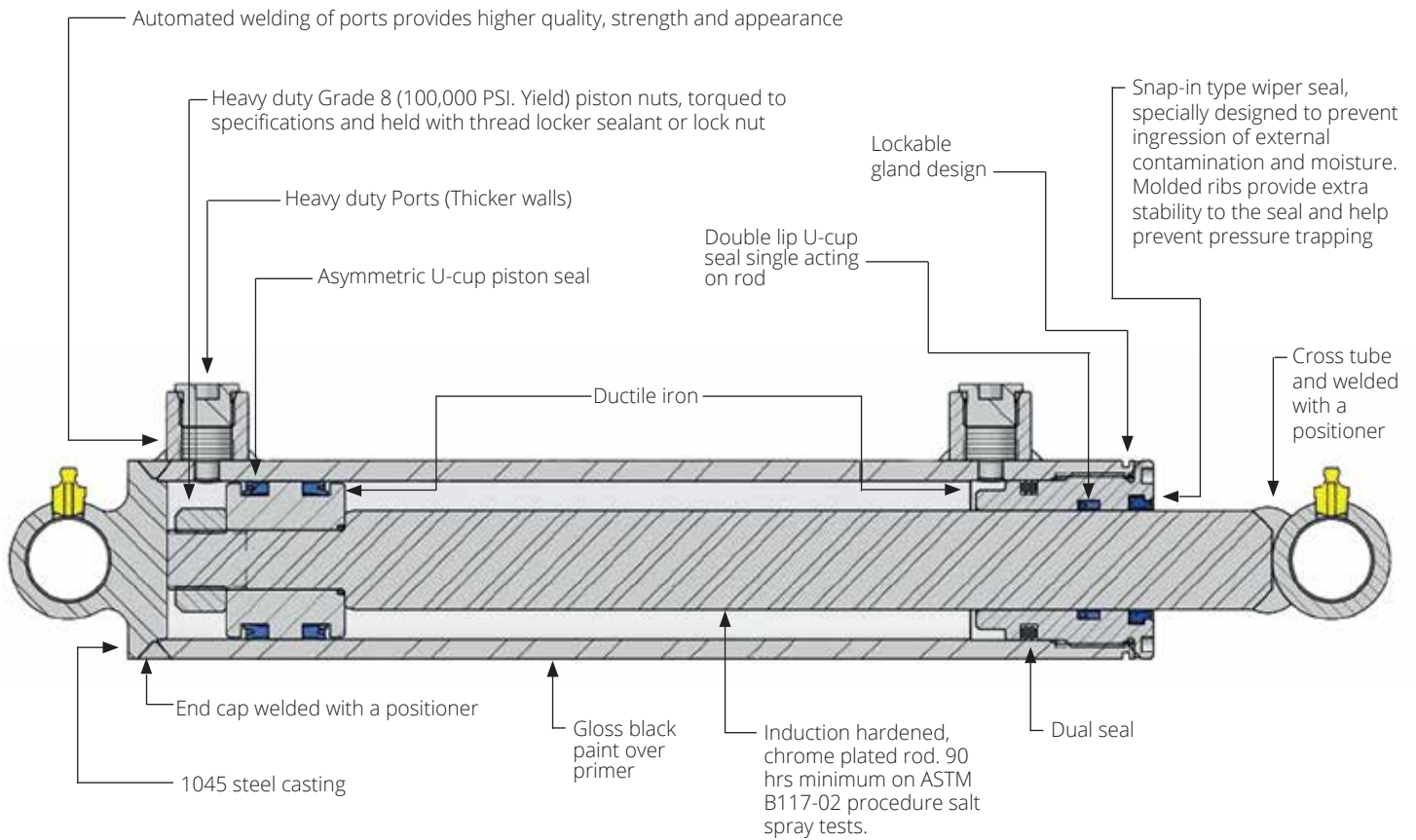
PART NUMBER	CYLINDER BORE	OUTSIDE DIAMETER	ROD DIAMETER	A ¹	B	C	D	E ²	F	G	H	I	J	K	PORT
WCL-15-S	1.50"	2.00"	1.00"	8.25"	1.62"	0.87"	1.37"	2.25"	1.37"	1.50"	0.76"	-	0.93"	1.87"	SAE 4
WCL-20-S	2.00"	2.50"	1.25"	10.25"	2.12"	1.12"	2.12"	3.12"	2.12"	2.00"	1.01"	-	1.00"	2.06"	SAE6
WCL-25-S	2.50"	3.00"	1.50"	10.25"	2.12"	1.12"	2.12"	3.12"	2.12"	2.00"	1.01"	-	0.81"	2.18"	SAE 8
WCL-30-S	3.00"	3.50"	1.50"	10.25"	2.12"	1.12"	2.12"	3.12"	2.12"	2.00"	1.01"	-	0.81"	2.18"	SAE 8
WCL-35-S	3.50"	4.00"	1.75"	10.25"	2.37"	1.12"	2.00"	3.12"	2.12"	2.00"	1.01"	2.12"	0.93"	2.18"	SAE 8
WCL-40-S	4.00"	4.50"	2.00"	10.25"	2.37"	1.12"	1.75"	3.12"	2.00"	2.00"	1.01"	2.00"	1.06"	2.18"	SAE 8
WCL-50-S	5.00"	5.50"	2.50"	13.00"	3.12"	1.62"	2.25"	3.62"	2.25"	3.00"	1.51"	-	1.37"	2.75"	SAE 12

1. FOR 8" STROKE : A = 12.25" (2" TO 4" BORE)

2. FOR 8" STROKE : E = 5.12" (2" TO 4" BORE)

MAXIMUM RETRACTED WORKING PRESSURE = 3000 PSI
MAXIMUM EXTENDED WORKING PRESSURE = SEE TABLE
RETRACTED AND STROKE TOLERANCE $\pm 1/8"$

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Seal temperature range : -30°C / +100°C (-22°F / +212°F)

Seal maximum speed : 3 FT / SEC

All seals are top grade/first quality North American made

All components CNC machined to ensure accuracy and conformity

Quality controlled in China by qualified Canadian technicians

100% tested. All cylinders are subjected to static and dynamic pressure tests to ensure quality and durability



WELDED THROUGH HOLE HYDRAULIC CYLINDERS 3000 PSI WP



WELDED THROUGH HOLE									
PART NUMBER	BORE X STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS*	COLUMN LOAD (LBS)	PRESSURE (PSI)	WEIGHT (LBS)
		RETRACTED	EXTENDED						
WTH-1504	1.5" X 4"	11"	15"	1"	5/8"	SAE 6	5300	3000	7
WTH-1506	1.5" X 6"	13"	19"				5300	3000	8
WTH-1508	1.5" X 8"	15"	23"				5300	3000	9
WTH-1510	1.5" X 10"	17"	27"				5300	3000	11
WTH-1512	1.5" X 12"	19"	31"				5300	3000	12
WTH-1514	1.5" X 14"	21"	35"				5300	3000	13
WTH-1516	1.5" X 16"	23"	39"				5300	3000	14
WTH-2004	2" X 4"	12"	16"	1-1/4"	3/4"	SAE 8	9400	3000	11
WTH-2006	2" X 6"	14"	20"				9400	3000	12
WTH-2008	2" X 8"	16"	24"				9400	3000	14
WTH-2010	2" X 10"	18"	28"				9400	3000	16
WTH-2012	2" X 12"	20"	32"				9400	3000	17
WTH-2014	2" X 14"	22"	36"				9400	3000	19
WTH-2016	2" X 16"	24"	40"				9400	3000	21
WTH-2018	2" X 18"	26"	44"				9400	3000	22
WTH-2020	2" X 20"	28"	48"				9400	3000	24
WTH-2024	2" X 24"	32"	56"				7300	2300	27
WTH-2028	2" X 28"	36"	64"				5600	1700	31
WTH-2030	2" X 30"	38"	68"				4900	1500	33
WTH-2032	2" X 32"	40"	72"				4400	1400	34
WTH-2036	2" X 36"	44"	80"				3500	1100	38
WTH-2040	2" X 40"	48"	88"				2900	900	41
WTH-2042	2" X 42"	50"	92"				2700	800	43
WTH-2048	2" X 48"	56"	104"				2100	600	48
WTH-2060	2" X 60"	68"	128"				1400	400	58
WTH-2072	2" X 72"	80"	152"				900	300	68
WTH-2504	2.5" X 4"	12"	16"	1-3/8"	3/4"	SAE 8	14700	3000	14
WTH-2506	2.5" X 6"	14"	20"				14700	3000	16
WTH-2508	2.5" X 8"	16"	24"				14700	3000	18
WTH-2510	2.5" X 10"	18"	28"				14700	3000	20
WTH-2512	2.5" X 12"	20"	32"				14700	3000	22
WTH-2514	2.5" X 14"	22"	36"				14700	3000	24
WTH-2516	2.5" X 16"	24"	40"				14700	3000	26
WTH-2518	2.5" X 18"	26"	44"				14700	3000	28
WTH-2520	2.5" X 20"	28"	48"				14600	2900	30
WTH-2524	2.5" X 24"	32"	56"				10700	2100	35
WTH-2528	2.5" X 28"	36"	64"				8200	1600	39
WTH-2530	2.5" X 30"	38"	68"				7200	1400	41
WTH-2532	2.5" X 32"	40"	72"				6500	1300	43
WTH-2536	2.5" X 36"	44"	80"				5200	1000	47
WTH-2540	2.5" X 40"	48"	88"				4300	800	51
WTH-2542	2.5" X 42"	50"	92"				3900	800	53
WTH-2548	2.5" X 48"	56"	104"	3100	600	60			
WTH-2560	2.5" X 60"	68"	128"	2000	400	72			

* OTHER PORTS AVAILABLE. CONTACT OIL-AIR PRODUCTS FOR ASSISTANCE.

NOTE : COLUMN LOAD IS THE MAXIMUM PUSHING LOAD SUGGESTED USING A MINIMUM SAFETY FACTOR OF 2 AND BASED ON A PIN TO PIN MOUNTING CALCULATION.

WELDED THROUGH HOLE HYDRAULIC CYLINDERS 3000 PSI WP



WELDED THROUGH HOLE									
PART NUMBER	BORE X STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS*	COLUMN LOAD (LBS)	PRESSURE (PSI)	WEIGHT (LBS)
		RETRACTED	EXTENDED						
WTH-3004	3" X 4"	12"	16"	1-1/2"	1"	SAE 8	21200	3000	19
WTH-3006	3" X 6"	14"	20"				21200	3000	21
WTH-3008	3" X 8"	16"	24"				21200	3000	24
WTH-3010	3" X 10"	18"	28"				21200	3000	26
WTH-3012	3" X 12"	20"	32"				21200	3000	28
WTH-3014	3" X 14"	22"	36"				21200	3000	31
WTH-3016	3" X 16"	24"	40"				21200	3000	33
WTH-3018	3" X 18"	26"	44"				21200	3000	36
WTH-3020	3" X 20"	28"	48"				20700	2900	38
WTH-3024	3" X 24"	32"	56"				15200	2100	43
WTH-3028	3" X 28"	36"	64"				11600	1600	48
WTH-3030	3" X 30"	38"	68"				10300	1400	51
WTH-3032	3" X 32"	40"	72"				9200	1300	53
WTH-3036	3" X 36"	44"	80"				7400	1000	58
WTH-3040	3" X 40"	48"	88"				6100	800	63
WTH-3042	3" X 42"	50"	92"				5600	700	65
WTH-3048	3" X 48"	56"	104"				4400	600	73
WTH-3060	3" X 60"	68"	128"				2900	400	87
WTH-3504	3.5" X 4"	12"	16"	1-3/4"	1"	SAE 8	28800	3000	24
WTH-3506	3.5" X 6"	14"	20"				28800	3000	27
WTH-3508	3.5" X 8"	16"	24"				28800	3000	30
WTH-3510	3.5" X 10"	18"	28"				28800	3000	33
WTH-3512	3.5" X 12"	20"	32"				28800	3000	36
WTH-3514	3.5" X 14"	22"	36"				28800	3000	39
WTH-3516	3.5" X 16"	24"	40"				28800	3000	42
WTH-3518	3.5" X 18"	26"	44"				28800	3000	45
WTH-3520	3.5" X 20"	28"	48"				28800	3000	48
WTH-3524	3.5" X 24"	32"	56"				28100	2900	54
WTH-3528	3.5" X 28"	36"	64"				21500	2200	60
WTH-3530	3.5" X 30"	38"	68"				19100	1900	63
WTH-3532	3.5" X 32"	40"	72"				17000	1700	66
WTH-3536	3.5" X 36"	44"	80"				13800	1400	72
WTH-3540	3.5" X 40"	48"	88"				11400	1100	79
WTH-3542	3.5" X 42"	50"	92"				10400	1000	82
WTH-3548	3.5" X 48"	56"	104"				8100	800	91
WTH-3560	3.5" X 60"	68"	128"				5770	600	109

* OTHER PORTS AVAILABLE. CONTACT OIL-AIR PRODUCTS FOR ASSISTANCE.

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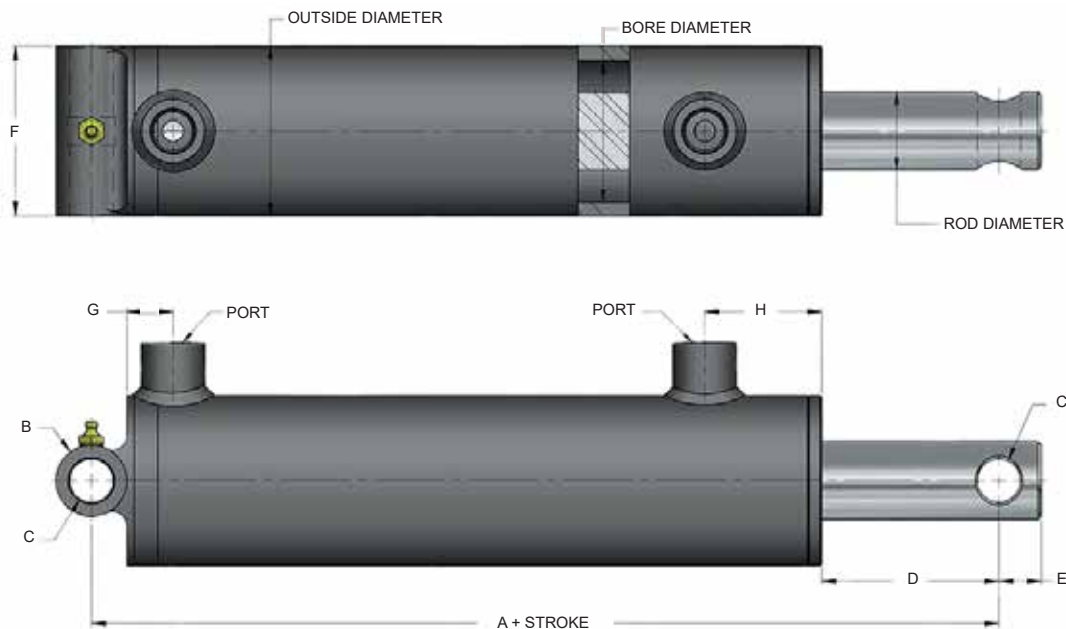
WELDED THROUGH HOLE HYDRAULIC CYLINDERS 3000 PSI WP



WELDED THROUGH HOLE									
PART NUMBER	BORE X STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS*	COLUMN LOAD (LBS)	PRESSURE (PSI)	WEIGHT (LBS)
		RETRACTED	EXTENDED						
WTH-4004	4" X 4"	13"	17"	2"	1-1/4"	SAE 8	37700	3000	33
WTH-4006	4" X 6"	15"	21"				37700	3000	36
WTH-4008	4" X 8"	17"	25"				37700	3000	40
WTH-4010	4" X 10"	19"	29"				37700	3000	44
WTH-4012	4" X 12"	21"	33"				37700	3000	47
WTH-4014	4" X 14"	23"	37"				37700	3000	51
WTH-4016	4" X 16"	25"	41"				37700	3000	55
WTH-4018	4" X 18"	27"	45"				37700	3000	58
WTH-4020	4" X 20"	29"	49"				37700	3000	62
WTH-4024	4" X 24"	33"	57"				37700	3000	70
WTH-4028	4" X 28"	37"	65"				35600	2800	77
WTH-4030	4" X 30"	39"	69"				31600	2500	81
WTH-4032	4" X 32"	41"	73"				28300	2200	84
WTH-4036	4" X 36"	45"	81"				22900	1800	91
WTH-4040	4" X 40"	49"	89"				19000	1500	99
WTH-4048	4" X 48"	57"	105"				13600	1000	114
WTH-4060	4" X 60"	69"	129"				9000	700	136

* OTHER PORTS AVAILABLE. CONTACT OIL-AIR PRODUCTS FOR ASSISTANCE

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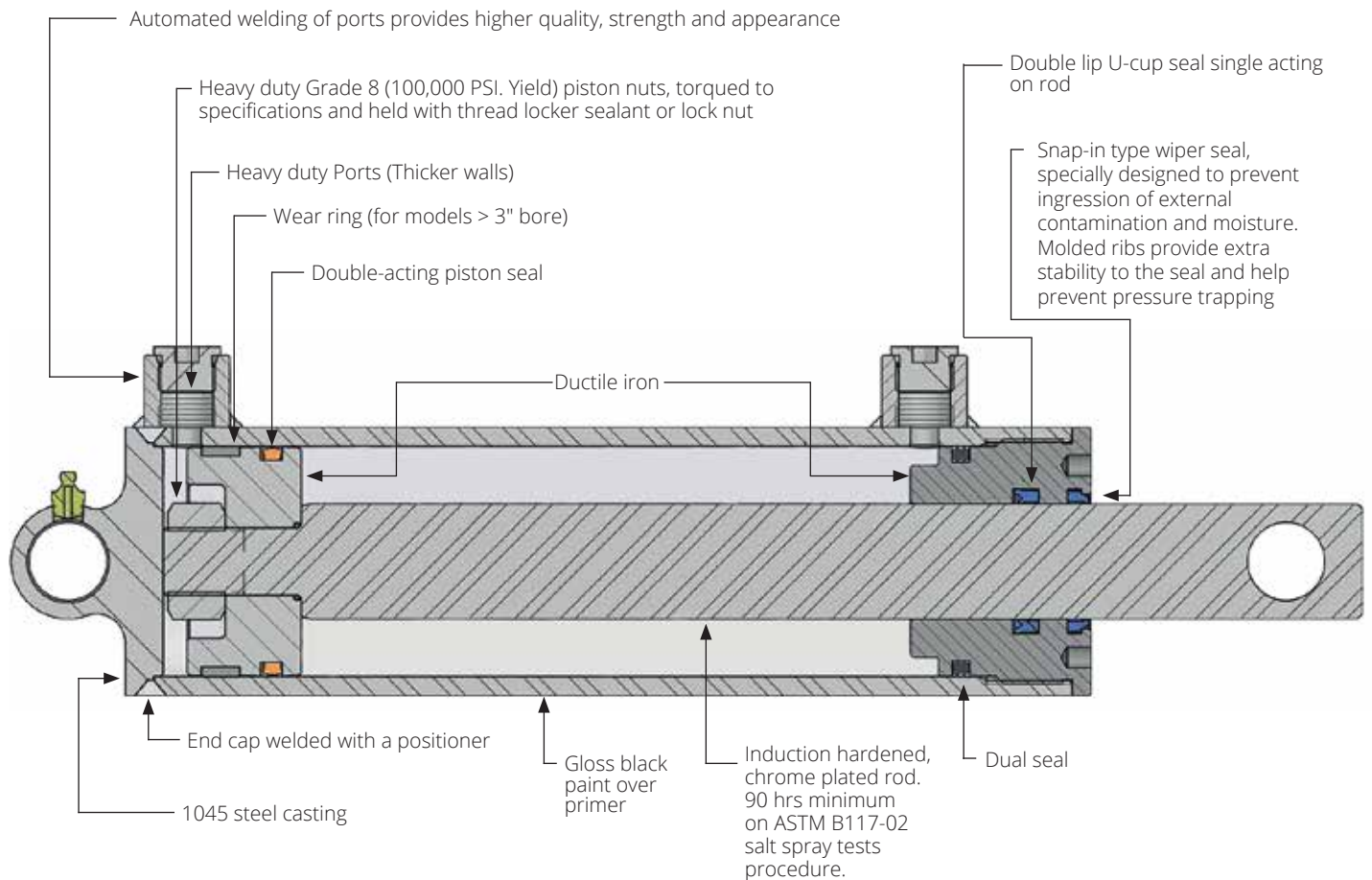
PART NUMBER	CYLINDER BORE	OUTSIDE DIAMETER	ROD DIAMETER	A	B	C	D	E	F	G	H	PORT
WTH-15	1.50"	2.00"	1.00"	7.00"	1.25"	0.64"	2.43"	0.62"	2.00"	0.81"	1.87"	SAE 6
WTH-20	2.00"	2.50"	1.25"	8.00"	1.25"	0.76"	3.37"	0.75"	2.50"	0.81"	1.87"	SAE 8
WTH-25	2.50"	3.00"	1.37"	8.00"	1.25"	0.76"	3.12"	0.75"	3.00"	0.81"	2.06"	SAE 8
WTH-30	3.00"	3.50"	1.50"	8.00"	1.50"	1.01"	2.56"	1.00"	3.50"	0.81"	2.18"	SAE 8
WTH-35	3.50"	4.00"	1.75"	8.00"	1.50"	1.01"	2.43"	1.00"	4.00"	0.81"	2.18"	SAE 8
WTH-40	4.00"	4.50"	2.00"	9.00"	2.00"	1.26"	2.43"	1.25"	4.50"	0.81"	2.18"	SAE 8

RETRACTED AND STROKE TOLERANCE $\pm 1/8"$

MAXIMUM RETRACTED WORKING PRESSURE = 3000 PSI
MAXIMUM EXTENDED WORKING PRESSURE = SEE TABLE

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WELDED THROUGH HOLE HYDRAULIC CYLINDERS 3000 PSI WP



Seal temperature range : -30°C / +100°C (-22°F / +212°F)

Seal maximum speed : 3 FT / SEC

All seals are top grade/first quality North American made

All components CNC machined to ensure accuracy and conformity

Quality controlled in China by qualified Canadian technicians

100% tested. All cylinders are subjected to static and dynamic pressure tests to ensure quality and durability

WTH



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ADJUSTABLE FEMALE CLEVIS HYDRAULIC CYLINDERS 3000 PSI WP



ADJUSTABLE FEMALE CLEVIS TYPE

PART NUMBER	BORE X STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS*	COLUMN LOAD (LBS)	PRESSURE (PSI)	WEIGHT (LBS)
		RETRACTED	EXTENDED						
WACL-1504	1.5" X 4"	14-1/4"	18-1/4"	1"	3/4"	SAE 6	5300	3000	10
WACL-1506	1.5" X 6"	16-1/4"	22-1/4"				5300	3000	11
WACL-1508	1.5" X 8"	18-1/4"	26-1/4"				5300	3000	12
WACL-1508-ASAE**	1.5" X 8"	20-1/4"	28-1/4"				5300	3000	13
WACL-1510	1.5" X 10"	20-1/4"	30-1/4"				5300	3000	13
WACL-1512	1.5" X 12"	22-1/4"	34-1/4"				5300	3000	15
WACL-1514	1.5" X 14"	24-1/4"	38-1/4"				5300	3000	16
WACL-1516	1.5" X 16"	26-1/4"	42-1/4"				5200	2900	17
WACL-1518	1.5" X 18"	28-1/4"	46-1/4"				4400	2400	18
WACL-1520	1.5" X 20"	30-1/4"	50-1/4"				3700	2100	20
WACL-1524	1.5" X 24"	34-1/4"	58-1/4"				2700	1500	22
WACL-1528	1.5" X 28"	38-1/4"	66-1/4"				2100	1200	25
WACL-1530	1.5" X 30"	40-1/4"	70-1/4"				1900	1000	26
WACL-1532	1.5" X 32"	42-1/4"	74-1/4"				1700	900	27
WACL-1534	1.5" X 34"	44-1/4"	78-1/4"				1500	800	28
WACL-1536	1.5" X 36"	46-1/4"	82-1/4"				1300	700	29
WACL-2004	2" X 4"	14-1/4"	18-1/4"	1-1/8"	1"	SAE 8	9400	3000	16
WACL-2006	2" X 6"	16-1/4"	22-1/4"				9400	3000	17
WACL-2008	2" X 8"	18-1/4"	26-1/4"				9400	3000	19
WACL-2008-ASAE**	2" X 8"	20-1/4"	28-1/4"				9400	3000	20
WACL-2010	2" X 10"	20-1/4"	30-1/4"				9400	3000	20
WACL-2012	2" X 12"	22-1/4"	34-1/4"				9400	3000	22
WACL-2014	2" X 14"	24-1/4"	38-1/4"				9400	3000	24
WACL-2016	2" X 16"	26-1/4"	42-1/4"				8400	2600	25
WACL-2018	2" X 18"	28-1/4"	46-1/4"				7000	2200	27
WACL-2020	2" X 20"	30-1/4"	50-1/4"				5900	1900	28
WACL-2024	2" X 24"	34-1/4"	58-1/4"				4400	1400	31
WACL-2030	2" X 30"	40-1/4"	70-1/4"				3000	900	36
WACL-2036	2" X 36"	46-1/4"	82-1/4"				2200	700	41
WACL-2504	2.5" X 4"	14-1/4"	18-1/4"	1-1/4"	1"	SAE 8	14700	3000	19
WACL-2506	2.5" X 6"	16-1/4"	22-1/4"				14700	3000	21
WACL-2508	2.5" X 8"	18-1/4"	26-1/4"				14700	3000	23
WACL-2508-ASAE**	2.5" X 8"	20-1/4"	28-1/4"				14700	3000	23
WACL-2510	2.5" X 10"	20-1/4"	30-1/4"				14700	3000	24
WACL-2512	2.5" X 12"	22-1/4"	34-1/4"				14700	3000	26
WACL-2514	2.5" X 14"	24-1/4"	38-1/4"				14700	3000	28
WACL-2516	2.5" X 16"	26-1/4"	42-1/4"				12800	2600	30
WACL-2518	2.5" X 18"	28-1/4"	46-1/4"				10700	2100	32
WACL-2520	2.5" X 20"	30-1/4"	50-1/4"				9100	1800	34
WACL-2524	2.5" X 24"	34-1/4"	58-1/4"				6700	1300	38
WACL-2530	2.5" X 30"	40-1/4"	70-1/4"				4600	900	44
WACL-2536	2.5" X 36"	46-1/4"	82-1/4"				3400	600	49

* OTHER PORTS AVAILABLE. CONTACT OIL-AIR PRODUCTS FOR ASSISTANCE.

NOTE : COLUMN LOAD IS THE MAXIMUM PUSHING LOAD SUGGESTED USING A MINIMUM SAFETY FACTOR OF 2 AND BASED ON A PIN TO PIN MOUNTING CALCULATION.

**ASAE DESIGNATES AN AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS (ASAE) MOUNTING STANDARD FOR 8" AND 16" STROKE CYLINDERS

ADJUSTABLE FEMALE CLEVIS HYDRAULIC CYLINDERS 3000 PSI WP



ADJUSTABLE FEMALE CLEVIS TYPE

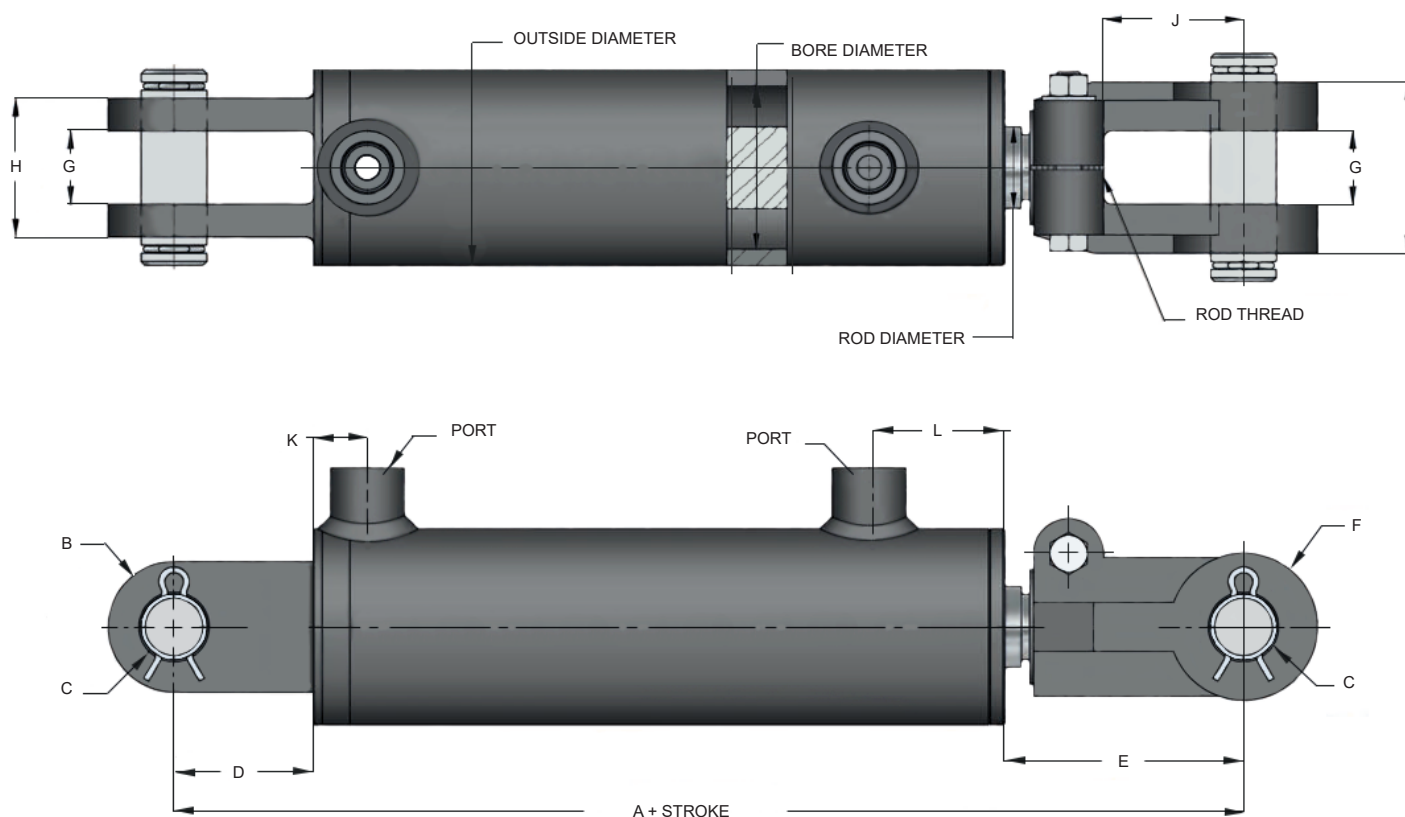
PART NUMBER	BORE X STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS*	COLUMN LOAD (LBS)	PRESSURE (PSI)	WEIGHT (LBS)
		RETRACTED	EXTENDED						
WACL-3004	3" X 4"	14-1/4"	18-1/4"	1-1/2"	1"	SAE 8	21200	3000	24
WACL-3006	3" X 6"	16-1/4"	22-1/4"				21200	3000	26
WACL-3008	3" X 8"	18-1/4"	26-1/4"				21200	3000	29
WACL-3008-ASAE**	3" X 8"	20-1/4"	28-1/4"				21200	3000	29
WACL-3010	3" X 10"	20-1/4"	30-1/4"				21200	3000	31
WACL-3012	3" X 12"	22-1/4"	34-1/4"				21200	3000	34
WACL-3014	3" X 14"	24-1/4"	38-1/4"				21200	3000	36
WACL-3016	3" X 16"	26-1/4"	42-1/4"				21200	3000	39
WACL-3018	3" X 18"	28-1/4"	46-1/4"				21200	3000	41
WACL-3020	3" X 20"	30-1/4"	50-1/4"				18800	2600	43
WACL-3024	3" X 24"	34-1/4"	58-1/4"				14000	1900	48
WACL-3030	3" X 30"	40-1/4"	70-1/4"				9600	1300	56
WACL-3036	3" X 36"	46-1/4"	82-1/4"				7000	900	63
WACL-3504	3.5" X 4"	14-1/4"	18-1/4"	1-3/4"	1"	SAE 8	28800	3000	29
WACL-3506	3.5" X 6"	16-1/4"	22-1/4"				28800	3000	32
WACL-3508	3.5" X 8"	18-1/4"	26-1/4"				28800	3000	35
WACL-3508-ASAE**	3.5" X 8"	20-1/4"	28-1/4"				28800	3000	36
WACL-3510	3.5" X 10"	20-1/4"	30-1/4"				28800	3000	38
WACL-3512	3.5" X 12"	22-1/4"	34-1/4"				28800	3000	41
WACL-3514	3.5" X 14"	24-1/4"	38-1/4"				28800	3000	44
WACL-3516	3.5" X 16"	26-1/4"	42-1/4"				28800	3000	47
WACL-3518	3.5" X 18"	28-1/4"	46-1/4"				28800	3000	50
WACL-3520	3.5" X 20"	30-1/4"	50-1/4"				28800	3000	53
WACL-3524	3.5" X 24"	34-1/4"	58-1/4"				26000	2700	59
WACL-3530	3.5" X 30"	40-1/4"	70-1/4"				17900	1800	68
WACL-3536	3.5" X 36"	46-1/4"	82-1/4"				13000	1300	78
WACL-4004	4" X 4"	14-1/4"	18-1/4"	2"	1"	SAE 8	37600	3000	35
WACL-4006	4" X 6"	16-1/4"	22-1/4"				37600	3000	38
WACL-4008	4" X 8"	18-1/4"	26-1/4"				37600	3000	42
WACL-4008-ASAE**	4" X 8"	20-1/4"	28-1/4"				37600	3000	43
WACL-4010	4" X 10"	20-1/4"	30-1/4"				37600	3000	46
WACL-4012	4" X 12"	22-1/4"	34-1/4"				37600	3000	49
WACL-4014	4" X 14"	24-1/4"	38-1/4"				37600	3000	53
WACL-4016	4" X 16"	26-1/4"	42-1/4"				37600	3000	57
WACL-4018	4" X 18"	28-1/4"	46-1/4"				37600	3000	60
WACL-4020	4" X 20"	30-1/4"	50-1/4"				37600	3000	64
WACL-4024	4" X 24"	34-1/4"	58-1/4"				37600	3000	71
WACL-4030	4" X 30"	40-1/4"	70-1/4"				30500	2400	82
WACL-4036	4" X 36"	46-1/4"	82-1/4"				22200	1700	94

* OTHER PORTS AVAILABLE. CONTACT OIL-AIR PRODUCTS FOR ASSISTANCE.

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**ASAE DESIGNATES AN AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS (ASAE) MOUNTING STANDARD FOR 8" AND 16" STROKE CYLINDERS

ADJUSTABLE FEMALE CLEVIS HYDRAULIC CYLINDERS 3000 PSI WP



PART NUMBER	CYLINDER BORE	OUTSIDE DIAMETER	ROD DIAMETER	ROD THREAD	A ¹	B	C	D	E ²	F	G	H	I	J	K	L	PORT
WACL-15	1.50"	2.00"	1.00"	0.875-14 UNF	10.25"	1.50"	0.76"	1.62"	4.50"	1.87"	0.87"	1.75"	2.00"	1.62"	0.93"	1.87"	SAE 6
WACL-20	2.00"	2.50"	1.12"	1.125-12 UNF	10.25"	2.00"	1.01"	2.12"	3.62"	2.25"	1.12"	2.12"	2.62"	2.12"	0.81"	2.06"	SAE 8
WACL-25	2.50"	3.00"	1.25"	1.125-12 UNF	10.25"	2.00"	1.01"	2.12"	3.62"	2.25"	1.12"	2.12"	2.62"	2.12"	0.81"	2.06"	SAE 8
WACL-30	3.00"	3.50"	1.50"	1.250-12 UNF	10.25"	2.00"	1.01"	1.87"	3.62"	2.25"	1.12"	2.62"	2.62"	2.12"	0.87"	2.18"	SAE 8
WACL-35	3.50"	4.00"	1.75"	1.500-12 UNF	10.25"	2.00"	1.01"	1.87"	3.62"	2.50"	1.12"	2.62"	2.75"	2.12"	0.93"	2.18"	SAE 8
WACL-40	4.00"	4.50"	2.00"	1.500-12 UNF	10.25"	2.25"	1.01"	1.75"	3.62"	2.50"	1.12"	2.62"	2.75"	2.12"	1.00"	2.18"	SAE 8

1. FOR 8" STROKE ASAE : A = 12.25

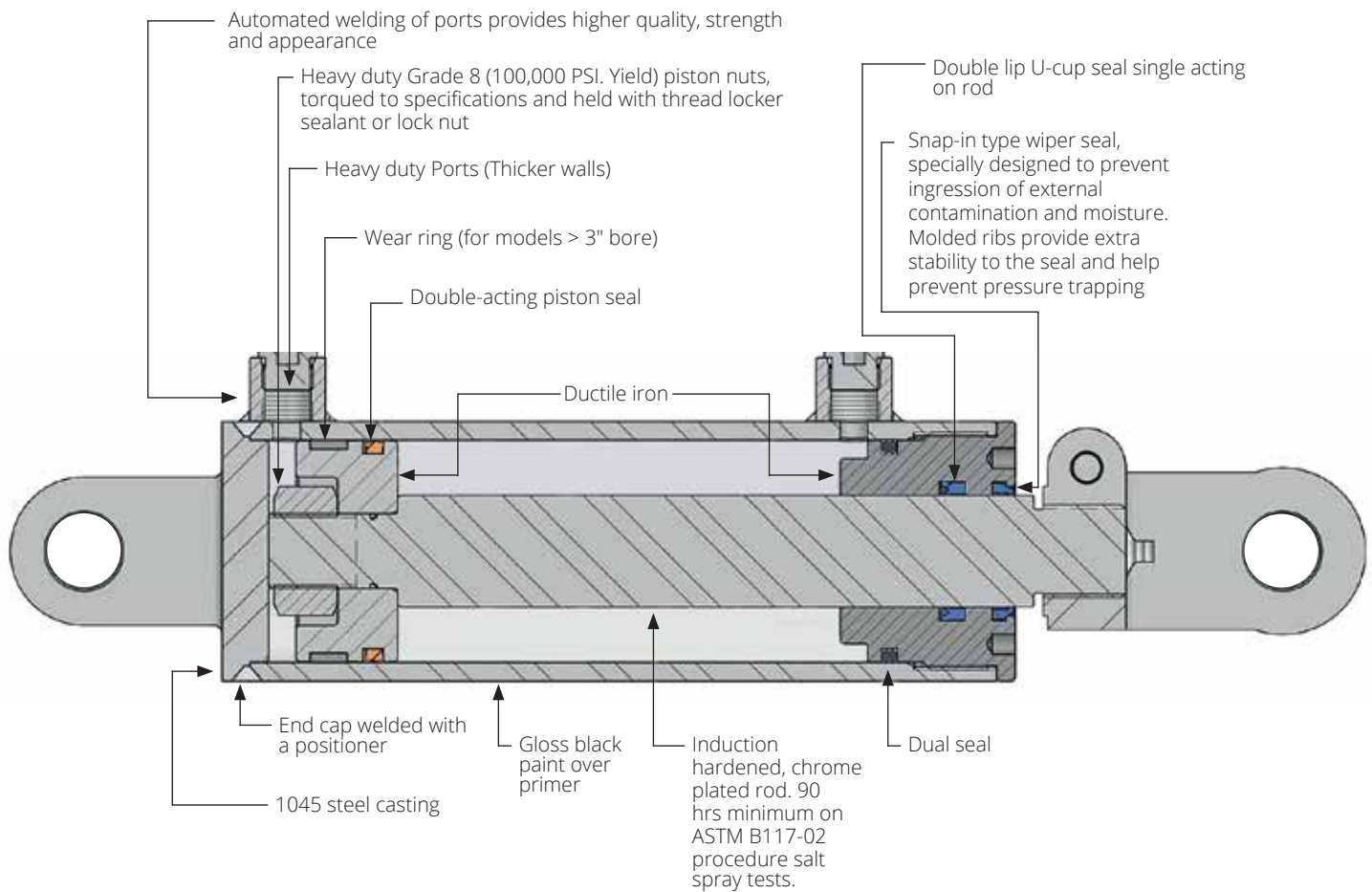
2. FOR 8" STROKE ASAE : E = 6.50" (1.50" BORE) E = 5.62" (2.00 TO 4.00" BORE)

DIMENSIONS A AND E ARE FOR REFERENCE ONLY AS CLEVIS IS ADJUSTABLE

MAXIMUM RETRACTED WORKING PRESSURE = 3000 PSI

MAXIMUM EXTENDED WORKING PRESSURE = SEE TABLE

ADJUSTABLE FEMALE CLEVIS HYDRAULIC CYLINDERS 3000 PSI WP



Seal temperature range : -30°C / +100°C (-22°F / +212°F)
Seal maximum speed : 3 FT / SEC

All seals are top grade/first quality North American made

All components CNC machined to ensure accuracy and conformity

Quality controlled in China by qualified Canadian technicians

100% tested. All cylinders are subjected to static and dynamic pressure tests to ensure quality and durability

WACL



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TIE-ROD CLEVIS

PART NUMBER	BORE X STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS*	COLUMN LOAD (LBS)	PRESSURE (PSI)	WEIGHT (LBS)
		RETRACTED	EXTENDED						
TTR25-2004-S	2" X 4"	14 1/4"	18 1/4"	1-1/8"	1"	SAE 8	7800	2500	17
TTR25-2006-S	2" X 6"	16 1/4"	22 1/4"				7800	2500	19
TTR25-2008-S	2" X 8"	18 1/4"	26 1/4"				7800	2500	20
TTR25-2008-ASAE-S**	2" X 8"	20 1/4"	28 1/4"				7800	2500	21
TTR25-2010-S	2" X 10"	20 1/4"	30 1/4"				7800	2500	22
TTR25-2012-S	2" X 12"	22 1/4"	34 1/4"				7800	2500	24
TTR25-2014-S	2" X 14"	24 1/4"	38 1/4"				7800	2500	25
TTR25-2016-S	2" X 16"	26 1/4"	42 1/4"				7800	2500	27
TTR25-2018-S	2" X 18"	28 1/4"	46 1/4"				7000	2200	28
TTR25-2020-S	2" X 20"	30 1/4"	50 1/4"				5900	1900	30
TTR25-2024-S	2" X 24"	34 1/4"	58 1/4"				4400	1400	33
TTR25-2030-S	2" X 30"	40 1/4"	70 1/4"				3000	900	38
TTR25-2036-S	2" X 36"	46 1/4"	82 1/4"				2200	700	43
TTR25-2040-S	2" X 40"	50 1/4"	90 1/4"				1700	500	46
TTR25-2048-S	2" X 48"	58 1/4"	106 1/4"				1300	400	52
TTR25-2504-S	2.5" X 4"	14 1/4"	18 1/4"	1-1/8"	1"	SAE 8	12200	2500	19
TTR25-2506-S	2.5" X 6"	16 1/4"	22 1/4"				12200	2500	21
TTR25-2508-S	2.5" X 8"	18 1/4"	26 1/4"				12200	2500	22
TTR25-2508-ASAE-S**	2.5" X 8"	20 1/4"	28 1/4"				12200	2500	23
TTR25-2510-S	2.5" X 10"	20 1/4"	30 1/4"				12200	2500	25
TTR25-2512-S	2.5" X 12"	22 1/4"	34 1/4"				12200	2500	26
TTR25-2514-S	2.5" X 14"	24 1/4"	38 1/4"				10300	2100	28
TTR25-2516-S	2.5" X 16"	26 1/4"	42 1/4"				8400	1700	29
TTR25-2518-S	2.5" X 18"	28 1/4"	46 1/4"				7000	1400	32
TTR25-2520-S	2.5" X 20"	30 1/4"	50 1/4"				5900	1200	34
TTR25-2524-S	2.5" X 24"	34 1/4"	58 1/4"				4400	900	38
TTR25-2530-S	2.5" X 30"	40 1/4"	70 1/4"				4400	900	44
TTR25-2536-S	2.5" X 36"	46 1/4"	82 1/4"				3400	600	50
TTR25-2540-S	2.5" X 40"	50 1/4"	90 1/4"				2700	500	54
TTR25-2548-S	2.5" X 48"	58 1/4"	106 1/4"				2000	400	62
TTR25-3004-S	3" X 4"	14 1/4"	18 1/4"	1-1/4"	1"	SAE 8	17600	2500	24
TTR25-3006-S	3" X 6"	16 1/4"	22 1/4"				17600	2500	26
TTR25-3008-S	3" X 8"	18 1/4"	26 1/4"				17600	2500	28
TTR25-3008-ASAE-S**	3" X 8"	20 1/4"	28 1/4"				17600	2500	29
TTR25-3010-S	3" X 10"	20 1/4"	30 1/4"				17600	2500	30
TTR25-3012-S	3" X 12"	22 1/4"	34 1/4"				17600	2500	33
TTR25-3014-S	3" X 14"	24 1/4"	38 1/4"				15700	2200	35
TTR25-3016-S	3" X 16"	26 1/4"	42 1/4"				12800	1800	37
TTR25-3016-ASAE-S**	3" X 16"	31 1/2"	47 1/2"	1-1/2"	1-1/4"		9200	1300	42
TTR25-3018-S	3" X 18"	28 1/4"	46 1/4"	1-1/4"	1"		11300	1600	42
TTR25-3020-S	3" X 20"	30 1/4"	50 1/4"				9200	1300	44
TTR25-3024-S	3" X 24"	34 1/4"	58 1/4"				6700	900	49
TTR25-3030-S	3" X 30"	40 1/4"	70 1/4"				9600	1300	57
TTR25-3036-S	3" X 36"	46 1/4"	82 1/4"				7000	900	65
TTR25-3040-S	3" X 40"	50 1/4"	90 1/4"				5700	800	70
TTR25-3048-S	3" X 48"	58 1/4"	106 1/4"				3900	500	80

* OTHER PORTS AVAILABLE. CONTACT OIL-AIR PRODUCTS FOR ASSISTANCE.

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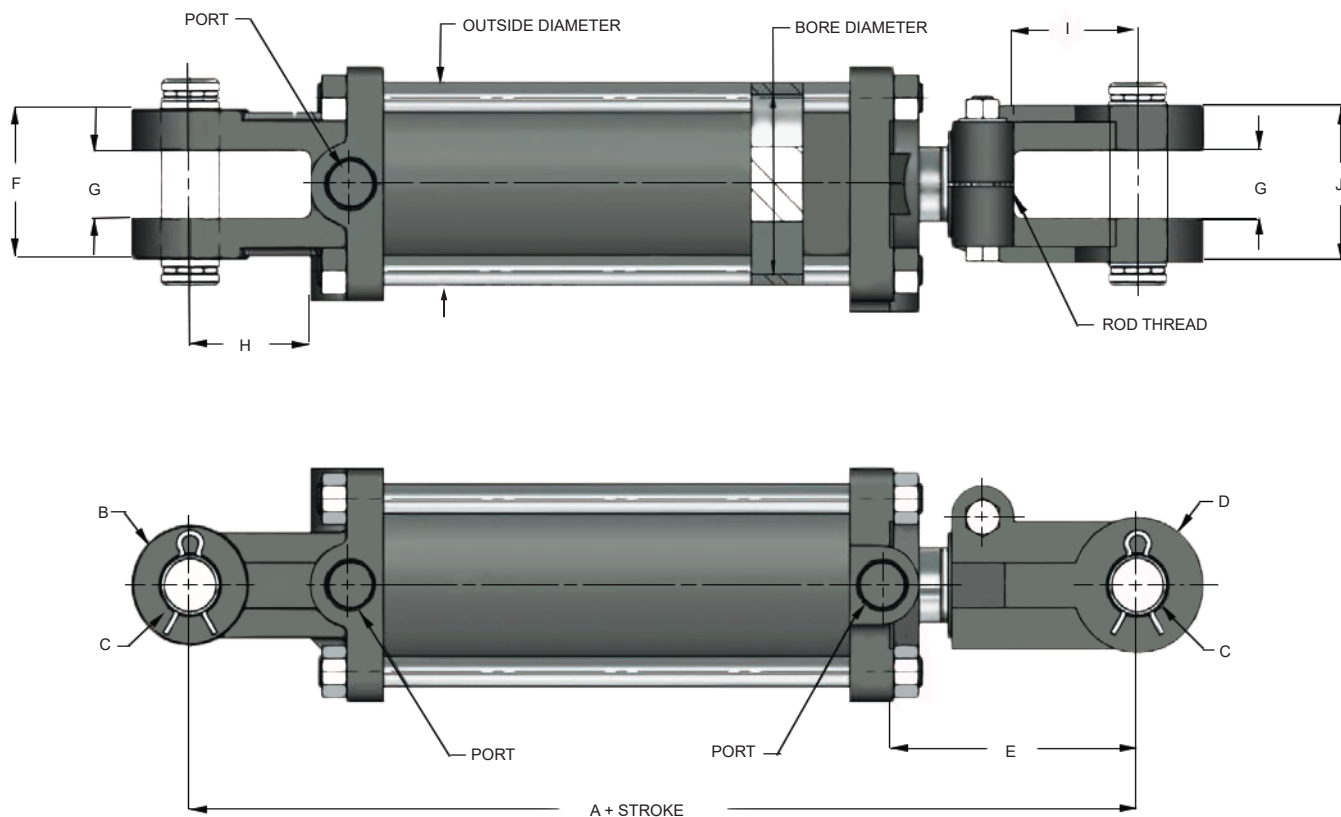
TIE-ROD CLEVIS

PART NUMBER	BORE X STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS*	COLUMN LOAD (LBS)	PRESSURE (PSI)	WEIGHT (LBS)
		RETRACTED	EXTENDED						
TTR25-3504-S	3.5" X 4"	14 1/4"	18 1/4"	1 1/4"	1"	SAE8	24000	2500	29
TTR25-3506-S	3.5" X 6"	16 1/4"	22 1/4"				24000	2500	32
TTR25-3508-S	3.5" X 8"	18 1/4"	26 1/4"				24000	2500	34
TTR25-3508-ASAEs**	3.5" X 8"	20 1/4"	28 1/4"				24000	2500	35
TTR25-3510-S	3.5" X 10"	20 1/4"	30 1/4"				24000	2500	37
TTR25-3512-S	3.5" X 12"	22 1/4"	34 1/4"				19600	2000	39
TTR25-3514-S	3.5" X 14"	24 1/4"	38 1/4"				15700	1600	42
TTR25-3516-S	3.5" X 16"	26 1/4"	42 1/4"				12800	1300	44
TTR25-3516-ASAEs**	3.5" X 16"	31 1/2"	47 1/2"	1 1/2"	1 1/4"		21100	2100	50
TTR25-3518-S	3.5" X 18"	28 1/4"	46 1/4"	1 1/4"	1"		10700	1100	47
TTR25-3520-S	3.5" X 20"	30 1/4"	50 1/4"				9100	900	49
TTR25-3524-S	3.5" X 24"	34 1/4"	58 1/4"	1 1/2"			14000	1400	59
TTR25-3530-S	3.5" X 30"	40 1/4"	70 1/4"				9600	1000	67
TTR25-3536-S	3.5" X 36"	46 1/4"	82 1/4"				7000	700	75
TTR25-3540-S	3.5" X 40"	50 1/4"	90 1/4"				5800	600	84
TTR25-3548-S	3.5" X 48"	58 1/4"	106 1/4"				3900	400	97
TTR25-4004-S	4" X 4"	14 1/4"	18 1/4"			1 1/2"	1"	31400	2500
TTR25-4006-S	4" X 6"	16 1/4"	22 1/4"	31400	2500			39	
TTR25-4008-S	4" X 8"	18 1/4"	26 1/4"	31400	2500			43	
TTR25-4008-ASAEs**	4" X 8"	20 1/4"	28 1/4"	31400	2500			44	
TTR25-4010-S	4" X 10"	20 1/4"	30 1/4"	31400	2500			46	
TTR25-4012-S	4" X 12"	22 1/4"	34 1/4"	31400	2500			49	
TTR25-4014-S	4" X 14"	24 1/4"	38 1/4"	31400	2500			53	
TTR25-4016-S	4" X 16"	26 1/4"	42 1/4"	26700	2100			56	
TTR25-4016-ASAEs**	4" X 16"	31 1/2"	47 1/2"	2"	1 1/4"	SAE8	31400	2500	63
TTR25-4018-S	4" X 18"	28 1/4"	46 1/4"	1 1/2"	22300		1700	59	
TTR25-4020-S	4" X 20"	30 1/4"	50 1/4"		18800		1500	66	
TTR25-4024-S	4" X 24"	34 1/4"	58 1/4"	1 3/4"	14000		1100	64	
TTR25-4024-175-S	4" X 24"	34 1/4"	58 1/4"		26000		2050	79	
TTR25-4024-200-S	4" X 24"	34 1/4"	58 1/4"	2"	31400		2500	85	
TTR25-4030-S	4" X 30"	40 1/4"	70 1/4"		30500		2400	98	
TTR25-4036-S	4" X 36"	46 1/4"	82 1/4"		22200		1700	111	
TTR25-4040-S	4" X 40"	50 1/4"	90 1/4"		18200	1400	120		
TTR25-4048-S	4" X 48"	58 1/4"	106 1/4"		13200	1000	137		

* OTHER PORTS AVAILABLE. CONTACT OIL-AIR PRODUCTS FOR ASSISTANCE.

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PART NUMBER	CYLINDER BORE	OUTSIDE DIAMETER	ROD THREAD ¹	A ²	B	C ³	D ⁴	E ⁵	F	G	H	I	J ⁴	PORT
TTR25-20-S	2.00"	2.38"	1.125-12 UNF	10.25"	2.00"	1.01"	2.00"	4.17"	2.44"	1.14"	2.00"	2.12"	2.50"	SAE 8
TTR25-25-S	2.50"	2.89"	1.125-12 UNF	10.25"	2.00"	1.01"	2.00"	4.17"	2.44"	1.14"	2.00"	2.12"	2.50"	SAE 8
TTR25-30-S	3.00"	3.39"	1.25-12 UNF	10.25"	2.00"	1.01"	2.00"	4.14"	2.72"	1.14"	2.00"	2.12"	2.72"	SAE 8
TTR25-35-S	3.50"	3.50"	1.25-12 UNF	10.25"	2.00"	1.01"	2.00"	4.09"	2.72"	1.14"	2.00"	2.12"	2.72"	SAE 8
TTR25-40-S	4.00"	4.50"	1.25-12 UNF	10.25"	2.00"	1.01"	2.00"	3.82"	2.72"	1.14"	2.12"	2.12"	2.72"	SAE 8

1. FOR TTR25-2518 TO TTR25-2536 : ROD THREAD = 1.250-12 UNF

2. FOR 8.00" STROKE ASAE : A = 12.25"

FOR 16.00" STROKE ASAE : A = 15.50"

3. FOR 16.00" STROKE ASAE : C = 1.26"

4. FOR TTR25-2016-ASAE TO TTR25-4036: D = 2.50", J = 2.75", ROD THREAD - 1.500-12 UNF

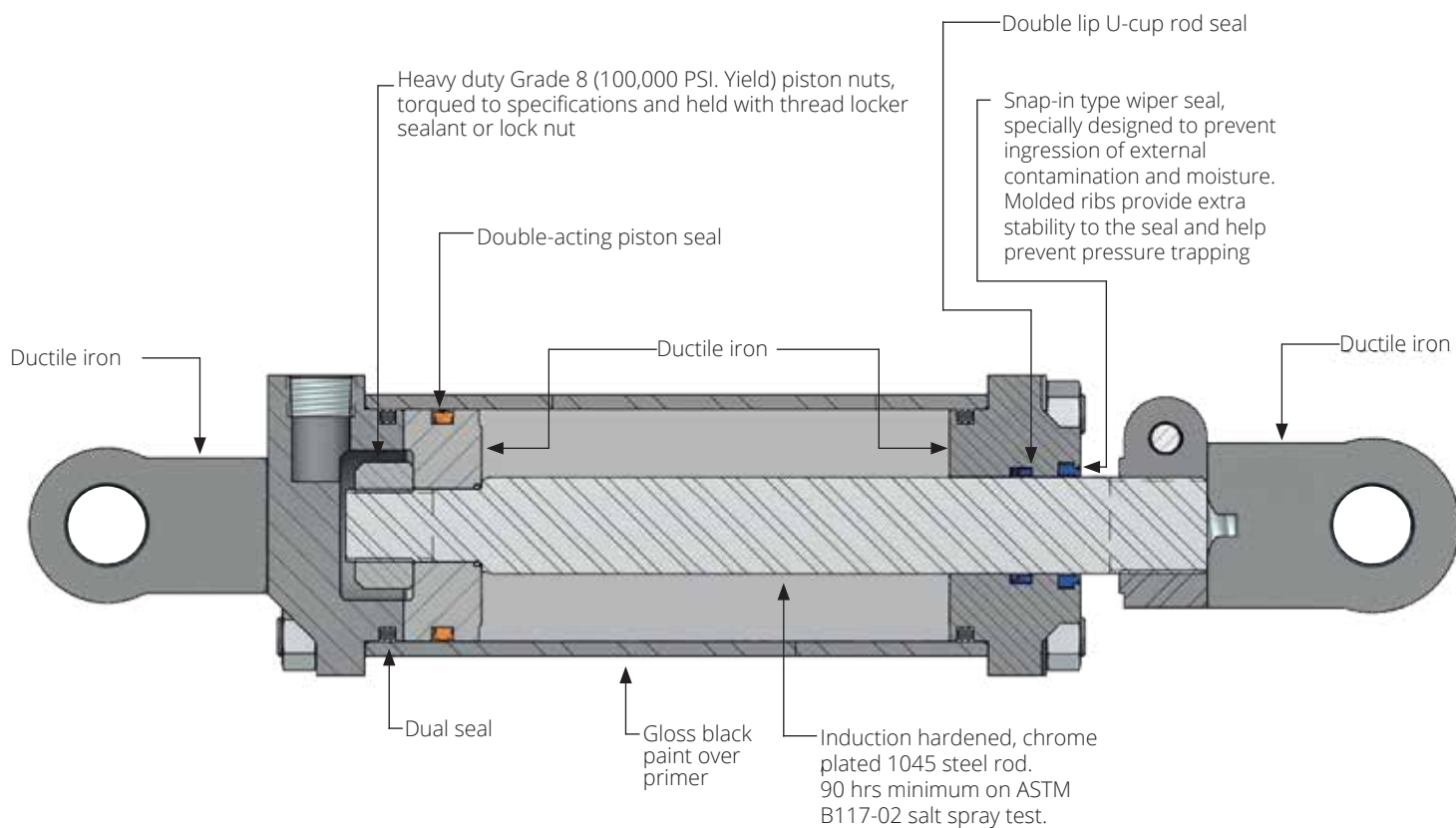
5. FOR 8.00" STROKE ASAE: E = 5.75" (2.00" TO 3.00" BORE), E = 5.62" (3.50" BORE), E = 5.56" (4.00" BORE)

FOR 16.00" STROKE ASAE: E = 9.00" (2.00" TO 3.00" BORE), E = 8.87" (3.50" BORE), E = 8.81" (4.00" BORE)

MAXIMUM RETRACTED WORKING PRESSURE = 2500 PSI

MAXIMUM EXTENDED WORKING PRESSURE = SEE TABLE

DIMENSIONS A AND E ARE FOR REFERENCE ONLY AS CLEVIS IS ADJUSTABLE



Seal temperature range : -30°C / +100°C (-22°F / +212°F)
Seal maximum speed : 3 FT / SEC

All seals are top grade/first quality North American made

All components CNC machined to ensure accuracy and conformity

Quality controlled in China by qualified Canadian technicians

100% tested. All cylinders are subjected to static and dynamic pressure tests to ensure quality and durability

TTR25





TIE-ROD CLEVIS

PART NUMBER	BORE X STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS*	COLUMN LOAD (LBS)	PRESSURE (PSI)	WEIGHT (LBS)	
		RETRACTED	EXTENDED							
TTR30-2004-S	2" X 4"	14-1/4"	18-1/4"	1-1/8"	1"	SAE 8	9400	3000	17	
TTR30-2006-S	2" X 6"	16-1/4"	22-1/4"				9400	3000	19	
TTR30-2008-S	2" X 8"	18-1/4"	26-1/4"				9400	3000	21	
TTR30-2008-ASAEs**	2" X 8"	20-1/4"	28-1/4"				9400	3000	22	
TTR30-2010-S	2" X 10"	20-1/4"	30-1/4"				9400	3000	23	
TTR30-2012-S	2" X 12"	22-1/4"	34-1/4"				9400	3000	25	
TTR30-2014-S	2" X 14"	24-1/4"	38-1/4"				9400	3000	27	
TTR30-2016-S	2" X 16"	26-1/4"	42-1/4"				8400	2600	28	
TTR30-2018-S	2" X 18"	28-1/4"	46-1/4"				7000	2200	30	
TTR30-2020-S	2" X 20"	30-1/4"	50-1/4"				5900	1900	32	
TTR30-2024-S	2" X 24"	34-1/4"	58-1/4"				4400	1400	36	
TTR30-2030-S	2" X 30"	40-1/4"	70-1/4"				3000	900	41	
TTR30-2036-S	2" X 36"	46-1/4"	82-1/4"				2200	700	47	
TTR30-2504-S	2.5" X 4"	14-1/4"	18-1/4"	1-1/4"	1"	SAE 8	14700	3000	22	
TTR30-2506-S	2.5" X 6"	16-1/4"	22-1/4"				14700	3000	24	
TTR30-2508-S	2.5" X 8"	18-1/4"	26-1/4"				14700	3000	26	
TTR30-2508-ASAEs**	2.5" X 8"	20-1/4"	28-1/4"				14700	3000	27	
TTR30-2510-S	2.5" X 10"	20-1/4"	30-1/4"				14700	3000	29	
TTR30-2512-S	2.5" X 12"	22-1/4"	34-1/4"				14700	3000	31	
TTR30-2514-S	2.5" X 14"	24-1/4"	38-1/4"				14700	3000	34	
TTR30-2516-S	2.5" X 16"	26-1/4"	42-1/4"				12800	2600	36	
TTR30-2518-S	2.5" X 18"	28-1/4"	46-1/4"				10700	2100	38	
TTR30-2520-S	2.5" X 20"	30-1/4"	50-1/4"				9100	1800	41	
TTR30-2524-S	2.5" X 24"	34-1/4"	58-1/4"				6700	1300	45	
TTR30-2530-S	2.5" X 30"	40-1/4"	70-1/4"				4600	900	53	
TTR30-2536-S	2.5" X 36"	46-1/4"	82-1/4"				3400	600	60	
TTR30-3004-S	3" X 4"	14-1/4"	18-1/4"	1-1/4"	1"	SAE 8	21200	3000	26	
TTR30-3006-S	3" X 6"	16-1/4"	22-1/4"				21200	3000	29	
TTR30-3008-S	3" X 8"	18-1/4"	26-1/4"				21200	3000	32	
TTR30-3008-ASAEs**	3" X 8"	20-1/4"	28-1/4"				21200	3000	32	
TTR30-3010-S	3" X 10"	20-1/4"	30-1/4"				21200	3000	34	
TTR30-3012-S	3" X 12"	22-1/4"	34-1/4"				21200	3000	37	
TTR30-3014-S	3" X 14"	24-1/4"	38-1/4"				21200	3000	40	
TTR30-3016-S	3" X 16"	26-1/4"	42-1/4"				18800	2600	43	
TTR30-3016-ASAEs**	3" X 16"	31-1/2"	47-1/2"		1-1/4"		14900	2100	45	
TTR30-3018-S	3" X 18"	28-1/4"	46-1/4"		1-1/2"		1"	15700	2200	45
TTR30-3020-S	3" X 20"	30-1/4"	50-1/4"					13300	1800	48
TTR30-3024-S	3" X 24"	34-1/4"	58-1/4"					9900	1400	53
TTR30-3030-S	3" X 30"	40-1/4"	70-1/4"					6800	900	62
TTR30-3036-S	3" X 36"	46-1/4"	82-1/4"	4900		700		70		

* OTHER PORTS AVAILABLE. CONTACT OIL-AIR PRODUCTS FOR ASSISTANCE.

NOTE : COLUMN LOAD IS THE MAXIMUM PUSHING LOAD SUGGESTED USING A MINIMUM SAFETY FACTOR OF 2 AND BASED ON A PIN TO PIN MOUNTING CALCULATION.

** ASAE = AMERICAN SOCIETY OF AGRICULTURE ENGINEERS DESIGNATES AN INDUSTRY MOUNTING STANDARD FOR 8" AND 16" STROKE CYLINDERS



TIE-ROD CLEVIS

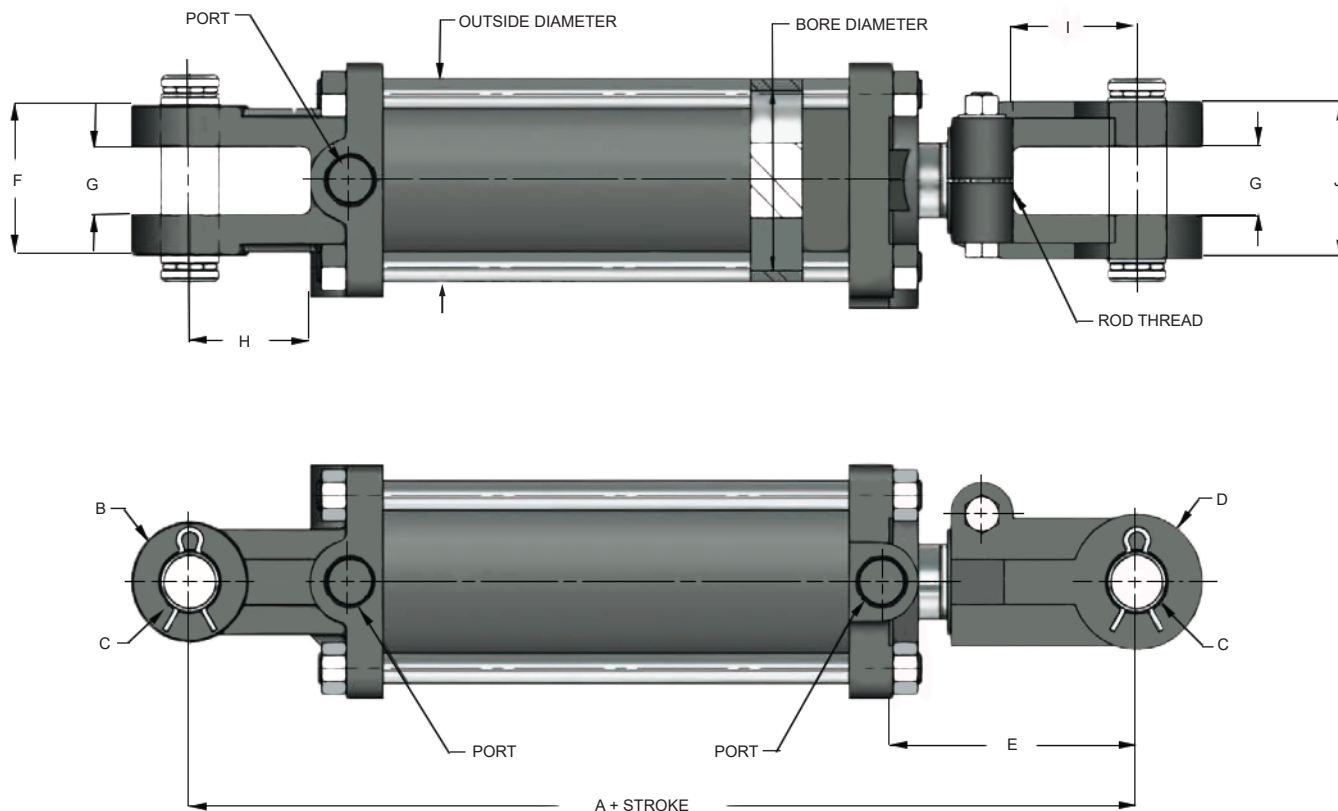
PART NUMBER	BORE X STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS*	COLUMN LOAD (LBS)	PRESSURE (PSI)	WEIGHT (LBS)	
		RETRACTED	EXTENDED							
TTR30-3504-S	3.5" X 4"	14-1/4"	18-1/4"	1-3/8"	1"	SAE 8	28800	3000	34	
TTR30-3506-S	3.5" X 6"	16-1/4"	22-1/4"				28800	3000	37	
TTR30-3508-S	3.5" X 8"	18-1/4"	26-1/4"				28800	3000	40	
TTR30-3508-ASAEs**	3.5" X 8"	20-1/4"	28-1/4"				28800	3000	41	
TTR30-3510-S	3.5" X 10"	20-1/4"	30-1/4"				27900	2900	44	
TTR30-3512-S	3.5" X 12"	22-1/4"	34-1/4"				2900	2700	47	
TTR30-3514-S	3.5" X 14"	24-1/4"	38-1/4"				23000	2300	50	
TTR30-3516-S	3.5" X 16"	26-1/4"	42-1/4"				18800	1900	53	
TTR30-3516-ASAEs**	3.5" X 16"	31-1/2"	47-1/2"	1-1/2"	1-1/4"		14900	1500	56	
TTR30-3518-S	3.5" X 18"	28-1/4"	46-1/4"		1"		15700	1600	56	
TTR30-3520-S	3.5" X 20"	30-1/4"	50-1/4"				13300	1300	60	
TTR30-3524-S	3.5" X 24"	34-1/4"	58-1/4"				9900	1000	70	
TTR30-3530-S	3.5" X 30"	40-1/4"	70-1/4"				6800	700	76	
TTR30-3536-S	3.5" X 36"	46-1/4"	82-1/4"				4900	500	85	
TTR30-4004-S	4" X 4"	14-1/4"	18-1/4"	1-1/2"	1"		SAE 8	37600	3000	52
TTR30-4006-S	4" X 6"	16-1/4"	22-1/4"					37600	3000	56
TTR30-4008-S	4" X 8"	18-1/4"	26-1/4"			37600		3000	59	
TTR30-4008-ASAEs**	4" X 8"	20-1/4"	28-1/4"			37600		3000	50	
TTR30-4010-S	4" X 10"	20-1/4"	30-1/4"			37600		3000	63	
TTR30-4012-S	4" X 12"	22-1/4"	34-1/4"			37600		3000	67	
TTR30-4014-S	4" X 14"	24-1/4"	38-1/4"			37600		3000	70	
TTR30-4016-S	4" X 16"	26-1/4"	42-1/4"			37600		3000	85	
TTR30-4016-ASAEs**	4" X 16"	31-1/2"	47-1/2"	1-3/4"	1-1/4"	37600		3000	86	
TTR30-4018-S	4" X 18"	28-1/4"	46-1/4"		1"			37600	3000	85
TTR30-4020-S	4" X 20"	30-1/4"	50-1/4"					35000	2700	86
TTR30-4024-S	4" X 24"	34-1/4"	58-1/4"					26000	2000	94
TTR30-4030-S	4" X 30"	40-1/4"	70-1/4"					17900	1400	112
TTR30-4036-S	4" X 36"	46-1/4"	82-1/4"					13000	1000	125
TTR30-5004-S	5" X 4"	16-1/4"	20-1/4"	2"	1-1/4"	SAE 12		58900	3000	71
TTR30-5006-S	5" X 6"	18-1/4"	24-1/4"					58900	3000	76
TTR30-5008-ASAE**	5" X 8"	22-1/4"	30-1/4"				58900	3000	81	
TTR30-5010-S	5" X 10"	22-1/4"	32-1/4"				58900	3000	86	
TTR30-5012-S	5" X 12"	24-1/4"	36-1/4"				58900	3000	91	
TTR30-5014-S	5" X 14"	26-1/4"	40-1/4"				58900	3000	96	
TTR30-5016-S	5" X 16"	28-1/4"	44-1/4"				58900	3000	101	
TTR30-5016-ASAEs**	5" X 16"	31-1/2"	47-1/2"				58900	3000	104	
TTR30-5018-S	5" X 18"	30-1/4"	48-1/4"				58900	3000	106	
TTR30-5020-S	5" X 20"	32-1/4"	52-1/4"				55200	2800	112	
TTR30-5024-S	5" X 24"	36-1/4"	60-1/4"				41500	2100	122	
TTR30-5030-S	5" X 30"	42-1/4"	72-1/4"				28800	1400	137	
TTR30-5036-S	5" X 36"	48-1/4"	84-1/4"				21200	1000	153	

* OTHER PORTS AVAILABLE. CONTACT OIL-AIR PRODUCTS FOR ASSISTANCE.

NOTE : COLUMN LOAD IS THE MAXIMUM PUSHING LOAD SUGGESTED USING A MINIMUM SAFETY FACTOR OF 2 AND BASED ON A PIN TO PIN MOUNTING CALCULATION.

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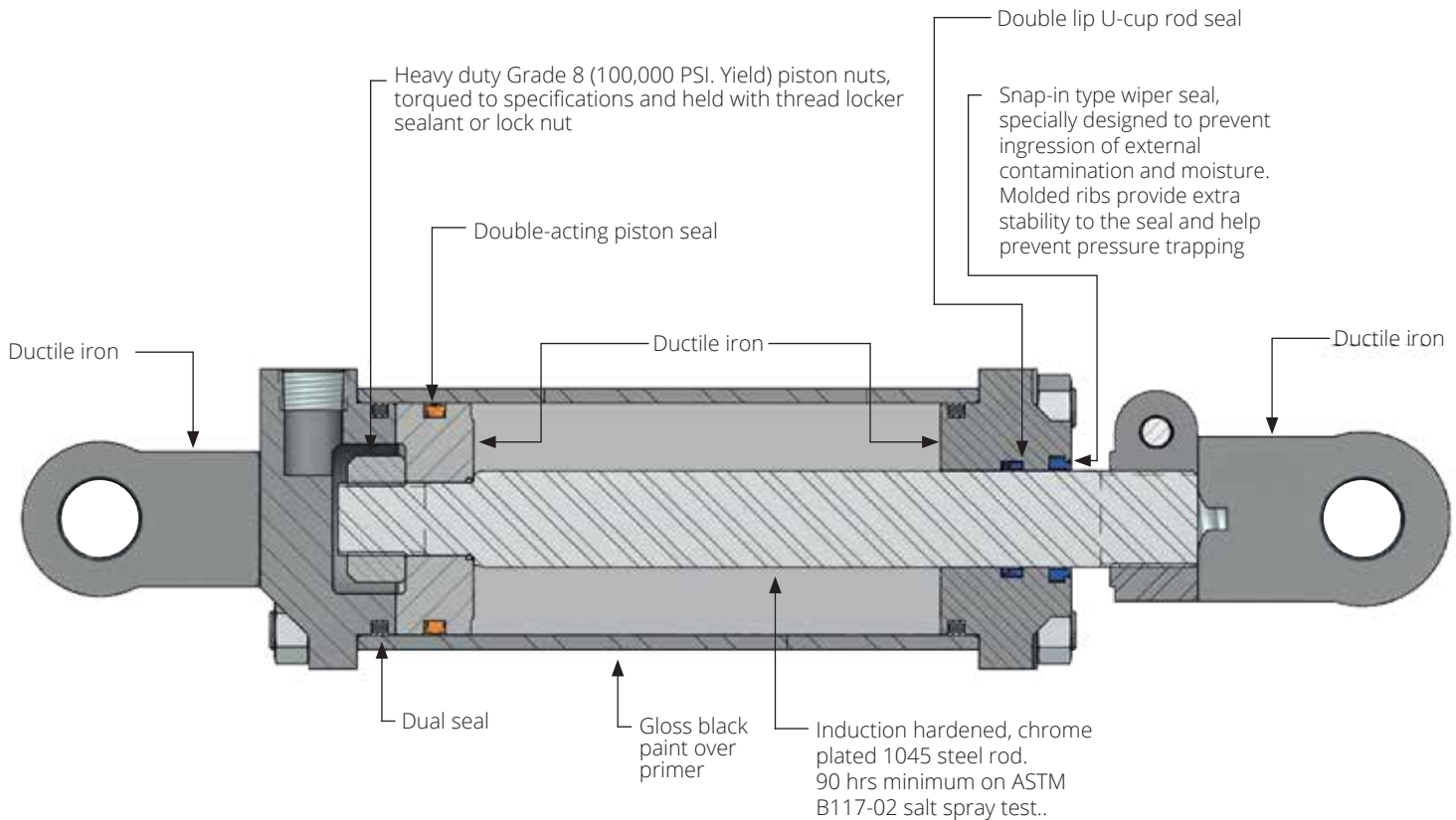
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PART NUMBER	CYLINDER BORE	OUTSIDE DIAMETER	ROD THREAD	A ¹	B	C ²	D	E ³	F	G ⁴	H	I	J	PORT
TTR30-20-S	2.00"	2.38"	1.125-12 UNF	10.25"	2.00"	1.01"	2.00"	4.17"	2.44"	1.14"	2.00"	2.12"	2.50"	SAE8
TTR30-25-S	2.50"	2.89"	1.125-12 UNF	10.25"	2.00"	1.01"	2.00"	4.17"	2.44"	1.14"	2.00"	2.12"	2.50"	SAE8
TTR30-30-S	3.00"	3.39"	1.25-12 UNF	10.25"	2.00"	1.01"	2.00"	4.14"	2.72"	1.14"	2.00"	2.12"	2.72"	SAE8
TTR30-35-S	3.50"	3.50"	1.25-12 UNF	10.25"	2.00"	1.01"	2.00"	4.09"	2.72"	1.14"	2.00"	2.12"	2.72"	SAE8
TTR30-40-S	4.00"	4.50"	1.25-12 UNF	10.25"	2.00"	1.01"	2.00"	3.82"	2.72"	1.14"	2.12"	2.12"	2.72"	SAE8
TTR30-50-S	5.00"	5.50"	1.500-12 UNF	12.25"	2.75"	1.26"	2.75"	5.00"	2.87"	1.25"	2.12"	2.12"	2.95"	SAE12

1. FOR 8.00" ASAE STROKE : A = 12.25"
FOR 16.00" ASAE STROKE : A = 15.50"
2. FOR 16.00" ASAE STROKE : C = 1.26"
3. FOR 8.00" ASAE STROKE : E = 5.75" (2.00" TO 3.00" BORE) E = 5.62" (3.50" BORE) E = 5.56" (4.00" BORE)
FOR 16.00" ASAE STROKE : E = 9.00" (3.00" BORE) E = 8.87" (3.50" BORE) E = 8.81" (4.00" BORE) E = 7.43" (5.00" BORE)
4. FOR 5.00" BORE : G (FRONT CLEVIS) = 1.18" G (END CAP) = 1.31"

MAXIMUM RETRACTED WORKING PRESSURE = 3000 PSI
MAXIMUM EXTENDED WORKING PRESSURE = SEE TABLE
DIMENSIONS A AND E ARE FOR REFERENCE ONLY AS CLEVIS IS ADJUSTABLE



Seal temperature range : -30°C / +100°C (-22°F / +212°F)
Seal maximum speed : 3 FT / SEC

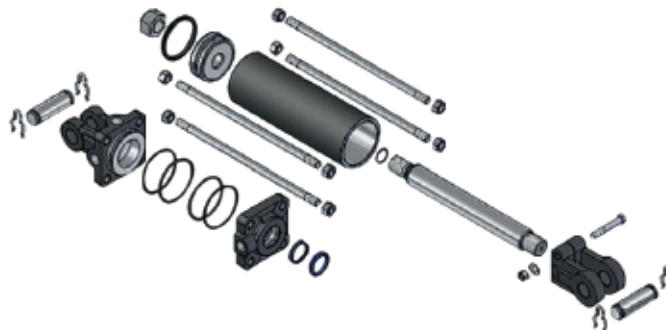
All seals are top grade/first quality North American made

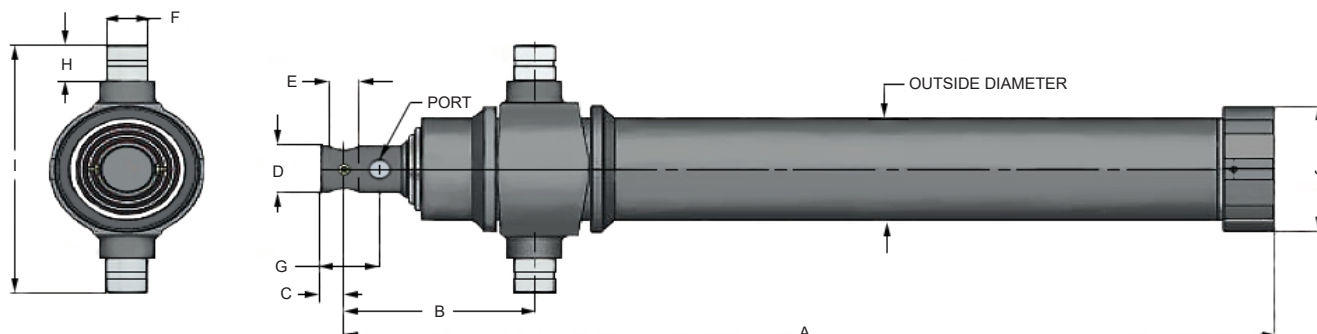
All components CNC machined to ensure accuracy and conformity

Quality controlled in China by qualified Canadian technicians

100% tested. All cylinders are subjected to static and dynamic pressure tests to ensure quality and durability

TTR30





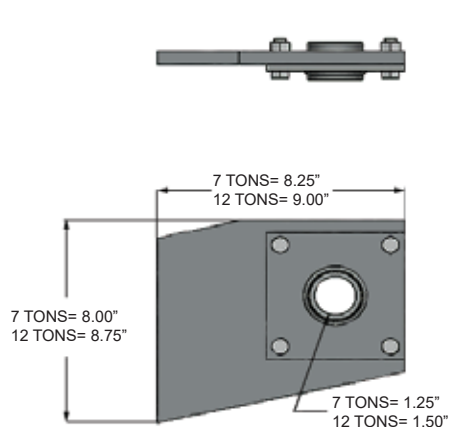
7 TON INVERTED TELESCOPIC CYLINDERS

PART NUMBER	CAPACITY	STROKE	OUTSIDE DIAMETER	A	B	C	D	E	F	G	H	I	J	PORT	WEIGHT (LBS)
ITC-07833-S	7 TONS	78"	3.74"	34.50"										SAE8	86
ITC-09033-S		90"	3.74"	38.50"	7.00"	1"	1.97"	1.01"	1.25"	2.1"	1.25"	9.00"	4.29"		94
ITC-10833-S		108"	3.74"	44.50"											106

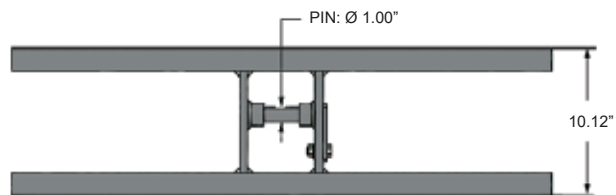
12 TON INVERTED TELESCOPIC CYLINDERS

PART NUMBER	CAPACITY	STROKE	OUTSIDE DIAMETER	A	B	C	D	E	F	G	H	I	J	PORT	WEIGHT (LBS)
ITC-07843-S	12 TONS	78"	4.49"	33.75"										SAE8	99
ITC-09043-S		90"	4.49"	33.75"	7.00"	1"	2.00"	1.01"	1.50"	2.1"	1.50"	10.50"	5.04"		109
ITC-10843-S		108"	4.49"	43.75"											125
ITC-12043-S		120"	4.49"	47.75"											135

RETRACTED TOLERANCE $\pm 1/8"$



BOX BRACKET

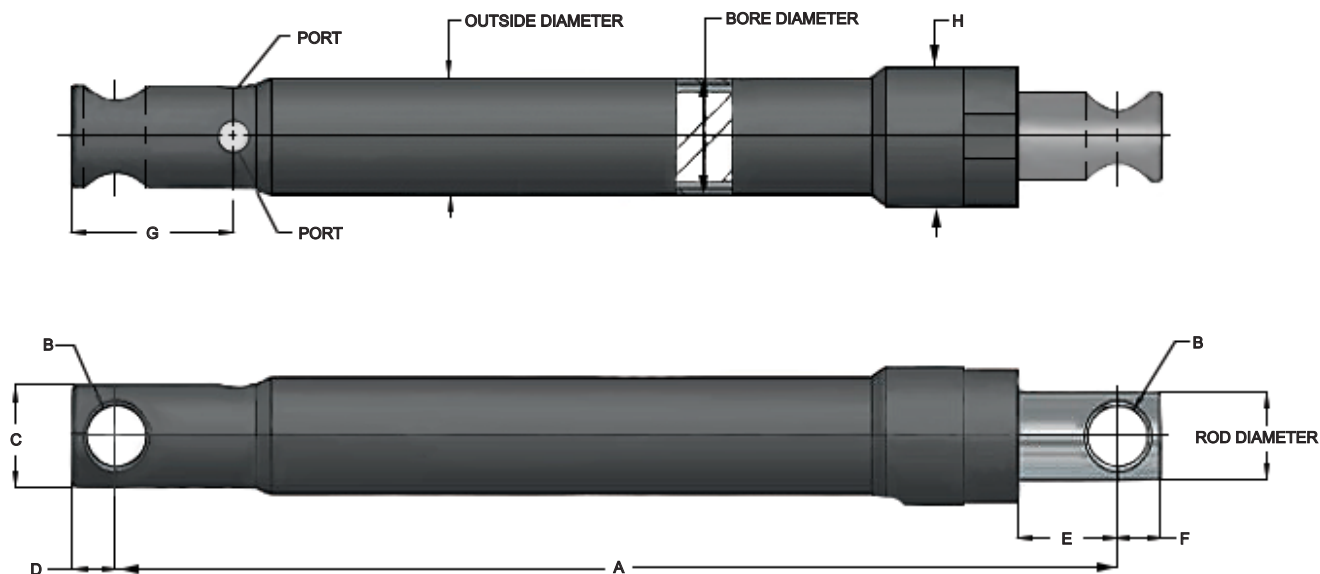


SUPPORT BRACKET

TELESCOPIC ACCESSORIES

PART NUMBER	DESCRIPTION
ITC-SB	SUPPORT BRACKET FOR 7 AND 12 TONS
ITC-S07	BOX BRACKET KIT 7 TONS
ITC-S12	BOX BRACKET KIT 12 TONS

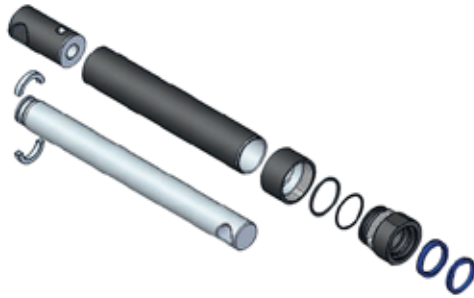
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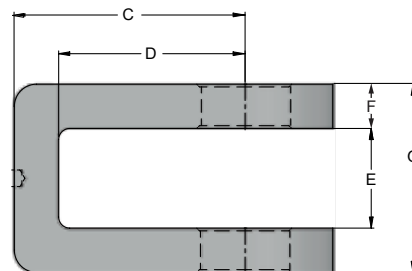
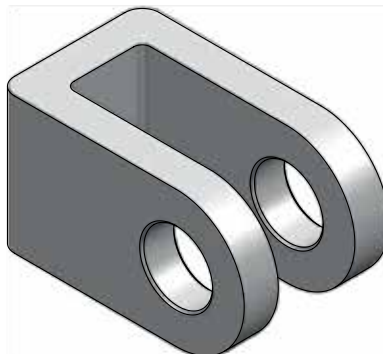
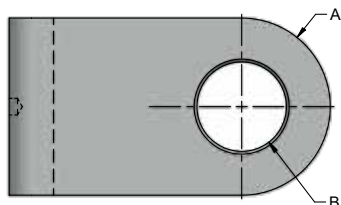


PART NUMBER	REPLACEMENT	BORE X STROKE	OUTSIDE DIAMETER	ROD DIAMETER	A	B	C	D	E	F	G	H	PORT	WEIGHT (LBS)
TASP-1510-0750	ARCTIC	1.77" X 10.00"	2.05"	1.50"	17.00"	0.76"	1.75"	0.75"	1.68"	0.75"	2.75"	2.37"	1/4-NPT (2X)	12
TASP-1512-0750	ARCTIC	1.77" X 12.00"	2.05"	1.50"	19.00"	0.76"	1.75"	0.75"	1.68"	0.75"	2.75"	2.37"	1/4-NPT (2X)	13
TFSP-1510-1000	FISHER	1.77" X 10.00"	2.05"	1.50"	17.00"	1.01"	1.75"	0.75"	1.68"	0.75"	2.75"	2.37"	1/4-NPT (2X)	11
TFSP-1512-1000	FISHER	1.77" X 12.00"	2.05"	1.50"	19.25"	1.01"	1.75"	0.75"	1.93"	0.75"	2.75"	2.37"	1/4-NPT (2X)	13
TFSP-2016-1250	FISHER	2.25" X 16.00"	2.60"	2.00"	23.25"	1.26"	2.25"	0.87"	1.75"	0.87"	2.75"	3.00"	1/4-NPT (2X)	27
TMSP-1506-0625	MEYER	1.77" X 6.00"	2.05"	1.50"	12.37"	0.63"	1.62"	0.75"	1.56"	0.75"	2.12"	2.37"	1/4-NPT	9
TMSP-1510-0625	MEYER	1.77" X 10.00"	2.05"	1.50"	16.18"	0.63"	1.62"	0.75"	1.62"	0.75"	2.12"	2.37"	1/4-NPT	14
TMSP-1512-0625	MEYER	1.77" X 12.00"	2.05"	1.50"	18.00"	0.63"	1.62"	0.75"	1.43"	0.75"	2.12"	2.37"	1/4-NPT	15
TMSP-2012-0625	MEYER	2.25" X 12.00"	2.60"	2.00"	18.00"	0.63"	1.62"	0.75"	0.75"	0.75"	2.25"	3.00"	1/4-NPT	24
TWSP-1506-0750	WESTERN	1.77" X 6.00"	2.05"	1.50"	13.00"	0.76"	1.75"	0.68"	1.37"	0.68"	2.75"	2.37"	1/4-NPT (2X)	11
TWSP-1508-0750	WESTERN	1.77" X 8.00"	2.05"	1.50"	15.25"	0.76"	1.75"	0.68"	1.62"	0.68"	2.75"	2.37"	1/4-NPT (2X)	12
TWSP-1510-0750	WESTERN	1.77" X 10.00"	2.05"	1.50"	17.25"	0.76"	1.75"	0.68"	1.62"	0.68"	2.75"	2.37"	1/4-NPT (2X)	14
TWSP-1510-1000	WESTERN	1.77" X 10.00"	2.05"	1.50"	17.00"	1.01"	1.75"	0.75"	1.43"	0.75"	2.75"	2.37"	1/4-NPT (2X)	14
TWSP-2006-0750	WESTERN	2.25" X 6.00"	2.60"	2.00"	13.18"	0.76"	2.25"	0.75"	1.56"	0.75"	2.75"	3.00"	1/4-NPT (2X)	18
TWSP-2010-1000	WESTERN	2.25" X 10.00"	2.60"	2.00"	17.25"	1.01"	2.25"	0.75"	1.62"	0.75"	2.75"	3.00"	1/4-NPT (2X)	22
TWSP-2016-1000	WESTERN	2.25" X 16.00"	2.60"	2.00"	23.31"	1.01"	2.25"	0.75"	1.68"	0.75"	2.56"	3.00"	1/4-NPT (2X)	31

SEAL TEMPERATURE RANGE : -30°C / +100°C (-22°F / +212°F)
SEAL MAXIMUM SPEED : 3 FT / SEC

CYLINDER WITH 1 PORT = PORT IN LINE WITH PIN HOLE
RETRACTED AND STROKE TOLERANCE $\pm 1/8"$



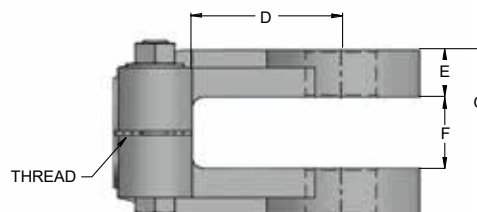
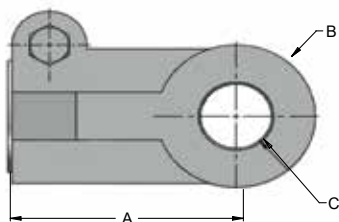


FEMALE CLEVIS

PART NUMBER	A	B	C	D	E	F	G	MAXIMUM LOAD PUSH / PULL (LBS)
TCL-100075-CLP	1.50"	0.76"	1.75"	1.37"	0.87"	0.37"	1.62"	5300
TCL-125100-CLP	2.00"	1.01"	2.62"	2.12"	1.12"	0.50"	2.12"	22500
TCL-175100-CLP	2.00"	1.01"	2.62"	2.12"	1.12"	0.62"	2.37"	28100
TCL-200100-CLP	2.00"	1.01"	2.62"	2.00"	1.12"	0.62"	2.37"	28100
TCL-250150-CLP	3.00"	1.51"	3.00"	2.25"	1.62"	0.75"	3.12"	50600

MATERIAL : C1045 CAST STEEL

MAXIMUM PUSHING & PULLING FORCE ARE BASED ON A SUGGESTED MINIMUM SAFETY FACTOR OF 2

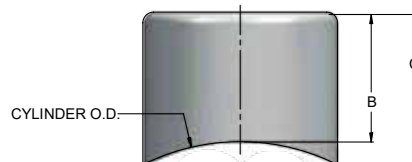
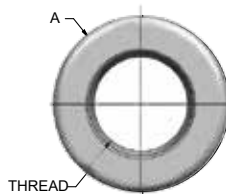


ADJUSTABLE CLEVIS

PART NUMBER	THREAD	A	B	C	D	E	F	G	MAXIMUM LOAD PUSH / PULL (LBS)
TST-0870718-CVP	0.875-14 UNF	2.75"	1.87"	0.76"	1.62"	0.56"	0.87"	2.00"	5300
TST-1121020-CVP	1.125-12 UNF	3.25"	2.00"	1.01"	2.12"	0.75"	1.12"	2.62"	23000
TST-1121022-CVP	1.125-12 UNF	3.25"	2.25"	1.01"	2.12"	0.75"	1.12"	2.62"	23000
TST-1121222-CVP	1.125-12 UNF	3.25"	2.25"	1.26"	2.12"	0.75"	1.12"	2.62"	23000
TST-1251022-CVP	1.250-12 UNF	3.25"	2.25"	1.01"	2.12"	0.75"	1.12"	2.62"	23000
TST-1311025-CVP	1.312-12 UN	3.25"	2.50"	1.01"	2.12"	0.81"	1.12"	2.75"	33700
TST-1311225-CVP	1.312-12 UN	3.25"	2.50"	1.26"	2.12"	0.81"	1.12"	2.75"	33700
TST-1501025-CVP	1.500-12 UNF	3.25"	2.50"	1.01"	2.12"	0.81"	1.12"	2.75"	33700
TST-1501225-CVP	1.500-12 UNF	3.25"	2.50"	1.26"	2.12"	0.81"	1.12"	2.75"	33700
TST-1501226-CVP	1.500-12 UNF	3.62"	2.75"	1.26"	2.12"	1.06"	1.18"	3.31"	58900

MATERIAL : C1045 CAST STEEL / DUCTILE IRON

MAXIMUM PUSHING & PULLING FORCE ARE BASED ON A SUGGESTED MINIMUM SAFETY FACTOR OF 2



PORT NPT

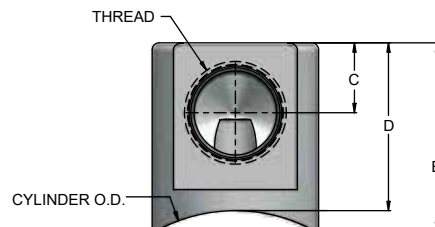
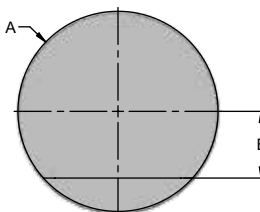
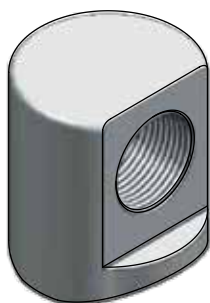
PART NUMBER	CYLINDER O.D	THREAD	A	B	C
T025N-200062-POP	2.00"	1/4 NPT	0.87"	0.50"	0.59"
T037N-250075-POP	2.50"	3/8 NPT	1.12"	0.62"	0.75"
T050N-300087-POP	3.00"	1/2 NPT	1.25"	0.75"	0.87"
T050N-350087-POP	3.50"	1/2 NPT	1.25"	0.75"	0.84"
T050N-400087-POP	4.00"	1/2 NPT	1.25"	0.75"	0.84"
T050N-450087-POP	4.50"	1/2 NPT	1.25"	0.75"	0.83"
T075N-550100-POP	5.50"	3/4 NPT	1.50"	0.87"	0.97"

PORT SAE

PART NUMBER	CYLINDER O.D	THREAD	A	B	C
T04S-200062-POP	2.00"	SAE 4	0.87"	0.50"	0.59"
T06S-250075-POP	2.50"	SAE 6	1.00"	0.62"	0.72"
T08S-300093-POP	3.00"	SAE 8	1.25"	0.75"	0.87"
T08S-350093-POP	3.50"	SAE 8	1.25"	0.75"	0.84"
T08S-400093-POP	4.00"	SAE 8	1.25"	0.75"	0.84"
T08S-450093-POP	4.50"	SAE 8	1.25"	0.75"	0.81"
T12S-550100-POP	5.50"	SAE 12	1.62"	1.00"	1.09"

MATERIAL : C1020 STEEL

MAXIMUM OPERATING PRESSURE : 3000 PSI (SAFETY FACTOR = 2)



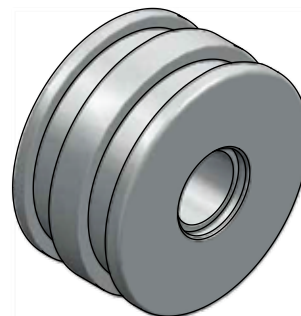
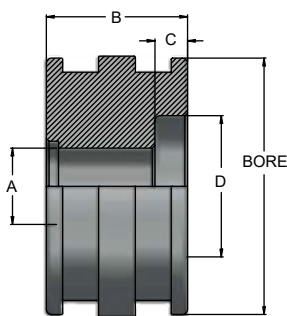
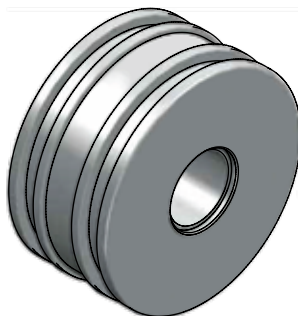
PORT

PART NUMBER	CYLINDER O.D	THREAD	A	B	C	D	E
T025N-200112-90POP	2.00"	1/4 NPT	1.12"	0.37"	0.43"	1.12"	1.25"
T037N-250125-90POP	2.50"	3/8 NPT	1.25"	0.43"	0.50"	1.25"	1.37"
T050N-300150-90POP	3.00"	1/2 NPT	1.62"	0.50"	0.62"	1.50"	1.68"
T050N-350150-90POP	3.50"	1/2 NPT	1.62"	0.50"	0.62"	1.50"	1.62"
T050N-400150-90POP	4.00"	1/2 NPT	1.62"	0.50"	0.62"	1.50"	1.62"
T050N-450150-90POP	4.50"	1/2 NPT	1.62"	0.50"	0.62"	1.50"	1.62"
T075N-550200-90POP	5.50"	3/4 NPT	2.12"	0.62"	0.87"	2.00"	2.18"
T04S-200112-90POP	2.00"	SAE 4	1.12"	0.37"	0.43"	1.12"	1.25"
T06S-250125-90POP	2.50"	SAE 6	1.25"	0.43"	0.50"	1.25"	1.37"
T08S-300150-90POP	3.00"	SAE 8	1.62"	0.50"	0.62"	1.50"	1.68"
T08S-350150-90POP	3.50"	SAE 8	1.62"	0.50"	0.62"	1.50"	1.62"
T08S-400150-90POP	4.00"	SAE 8	1.62"	0.50"	0.62"	1.50"	1.62"
T08S-450150-90POP	4.50"	SAE 8	1.62"	0.50"	0.62"	1.50"	1.62"
T12S-550200-90POP	5.50"	SAE 12	2.12"	0.62"	0.81"	2.00"	2.18"

MATERIAL : C1020 STEEL

MAXIMUM OPERATING PRESSURE : 3000 PSI (SAFETY FACTOR = 2)

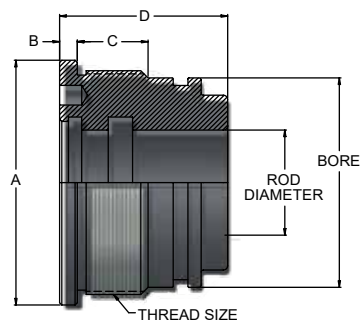
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PISTON

PART NUMBER	BORE	ROD DIAMETER	A	B	C	D
TST-15062-PIP	1.50"	1.00"	0.62"	1.50"	NONE	NONE
TST-20075-PIP	2.00"	1.25"	0.75"	1.50"	NONE	NONE
TST-25087-PIP	2.50"	1.50"	0.87"	1.62"	0.37"	1.62"
TST-30087-PIP	3.00"	1.50"	0.87"	1.62"	0.37"	1.62"
TST-35100-PIP	3.50"	1.75"	1.00"	1.62"	0.43"	1.87"
TST-40125-PIP	4.00"	2.00"	1.25"	1.75"	0.68"	2.62"
TST-50150-PIP	5.00"	2.50"	1.50"	2.50"	0.62"	3.25"
TST-60200-PIP	6.00"	3.00"	2.00"	2.50"	0.62"	3.62"

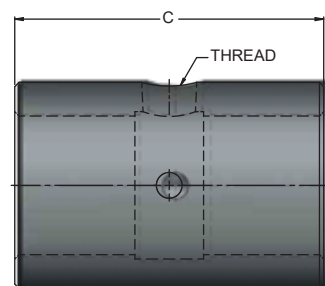
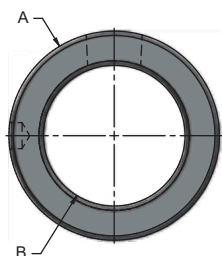
MATERIAL : 65-45-12 DUCTILE CAST IRON
PISTON FOR 5" & 6" BORE COME WITH A WEAR RING GROOVE



GLAND

PART NUMBER	BORE	ROD DIAMETER	THREAD SIZE	A	B	C	D
TST-15100-GLP	1.50"	1.00"	1.700-12 UN	2.00"	0.25"	0.75"	2.00"
TST-20125-GLP	2.00"	1.25"	2.200-12 UN	2.50"	0.25"	0.87"	2.25"
TST-25150-GLP	2.50"	1.50"	2.700-12 UN	3.00"	0.25"	1.00"	2.37"
TST-30150-GLP	3.00"	1.50"	3.200-12 UN	3.50"	0.25"	1.00"	2.37"
TST-35175-GLP	3.50"	1.75"	3.700-12 UN	4.00"	0.25"	1.00"	2.37"
TST-40200-GLP	4.00"	2.00"	4.200-12 UN	4.50"	0.25"	1.00"	2.37"
TST-50250-GLP	5.00"	2.50"	5.200-12 UN	5.50"	0.31"	1.37"	3.00"
TST-60300-GLP	6.00"	3.00"	6.250-12 UN	6.75"	0.50"	1.56"	3.50"

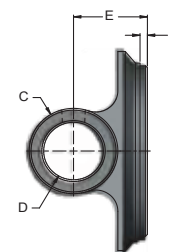
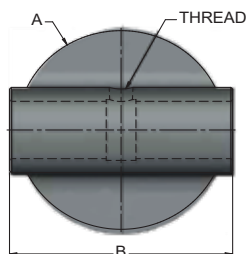
MATERIAL : 65-45-12 DUCTILE CAST IRON
GLAND FOR 5" & 6" BORE COMES WITH A WEAR RING GROOVE



BUSHING

PART NUMBER	A	B ¹	C	THREAD	MAXIMUM PUSH (LBS)	MAXIMUM PULL (LBS)
TBU-075200-BUP	1.25"	0.76"	2.00"	1/8 NPT	5300	5300
TBU-100225-BUP	1.50"	1.01"	2.25"	1/8 NPT	21200	21200
TBU-125225-BUP	2.00"	1.26"	2.25"	1/8 NPT	29000	29000
TBU-150250-BUP	2.25"	1.51"	2.50"	1/8 NPT	37700	37700
TBU-200325-BUP	3.00"	2.01"	3.25"	1/8 NPT	59000	50000

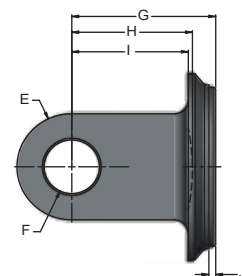
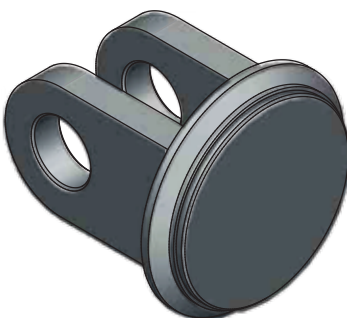
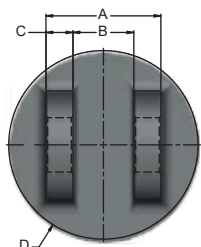
1. TBU-200325-BUP INCLUDES A SLEEVE TO ADAPT TO 1 3/4" PIN DIAMETER
MAXIMUM SUGGESTED PUSHING & PULLING FORCE BASED ON A MINIMUM SAFETY FACTOR OF 2
MATERIAL : C1020 STEEL



END CAP BUSHING

PART NUMBER	BORE	THREAD	A	B	C	D ¹	E	F	MAXIMUM PUSH (LBS)	MAXIMUM PULL (LBS)
TBU-15075-CAP	1.50"	1/8 NPT	2.00"	2.25"	1.25"	0.76"	1.12"	0.12"	5300	5300
TBU-20100-CAP	2.00"	1/8 NPT	2.50"	2.75"	1.50"	1.01"	1.25"	0.12"	9500	9500
TBU-25100-CAP	2.50"	1/8 NPT	3.00"	3.25"	1.50"	1.01"	1.25"	0.12"	14700	14700
TBU-30100-CAP	3.00"	1/8 NPT	3.50"	3.75"	1.50"	1.01"	1.25"	0.12"	21200	21200
TBU-35125-CAP	3.50"	1/8 NPT	4.00"	4.25"	2.00"	1.26"	1.50"	0.12"	29000	29000
TBU-40150-CAP	4.00"	1/8 NPT	4.50"	4.75"	2.25"	1.51"	1.62"	0.12"	37700	37700
TBU-50200-CAP	5.00"	1/8 NPT	5.50"	5.75"	3.00"	2.01"	2.25"	0.25"	59000	50000

1. TBU-50200-CAP INCLUDES A SLEEVE TO ADAPT TO 1 3/4" PIN DIAMETER
MAXIMUM SUGGESTED PUSHING & PULLING FORCE BASED ON A MINIMUM SAFETY FACTOR OF 2
MATERIAL : C1045 CAST STEEL

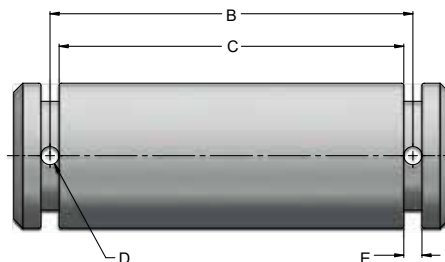
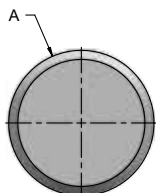


END CAP CLEVIS

PART NUMBER	BORE	A	B	C	D	E	F	G	H	I	J	MAXIMUM LOAD PUSH / PULL (LBS)
TCL-15075-CAP	1.50"	1.62"	0.87"	0.37"	2.00"	1.50"	0.76"	1.87"	none	1.37"	0.12"	5300
TCL-20100-CAP	2.00"	2.12"	1.12"	0.50"	2.50"	2.00"	1.01"	2.62"	none	2.12"	0.12"	9500
TCL-25100-CAP	2.50"	2.12"	1.12"	0.50"	3.00"	2.00"	1.01"	2.62"	none	2.12"	0.12"	14750
TCL-30100-CAP	3.00"	2.12"	1.12"	0.50"	3.50"	2.00"	1.01"	2.62"	none	2.12"	0.12"	22500
TCL-35100-CAP	3.50"	2.37"	1.12"	0.62"	4.00"	2.00"	1.01"	2.62"	2.12"	2.00"	0.12"	28100
TCL-40100-CAP	4.00"	2.37"	1.12"	0.62"	4.50"	2.00"	1.01"	2.50"	2.00"	1.75"	0.12"	28100
TCL-50150-CAP	5.00"	3.12"	1.62"	0.75"	5.50"	3.00"	1.51"	3.12"	none	2.25"	0.25"	50600

MATERIAL : C1045 CAST STEEL

MAXIMUM SUGGESTED PUSHING & PULLING FORCE BASED ON A MINIMUM SAFETY FACTOR OF 2



PIN

PART NUMBER	A	B	C	D	E	MAXIMUM LOAD PUSH / PULL (LBS)
T075175-PNP	0.75"	1.87"	1.75"	0.12"	0.12"	15700
T075212-PNP	0.75"	2.25"	2.12"	0.12"	0.12"	15700
T100237-PNP	1.00"	2.50"	2.37"	0.12"	0.12"	28100
T100262-PNP	1.00"	2.75"	2.62"	0.12"	0.12"	28100
T100275-PNP	1.00"	2.87"	2.75"	0.12"	0.12"	28100
T100287-PNP	1.00"	3.00"	2.87"	0.12"	0.12"	28100
T125350-PNP	1.25"	3.62"	3.50"	0.12"	0.12"	50500
T150337-PNP	1.50"	3.56"	3.37"	0.18"	0.18"	63100

MATERIAL : C1045 STEEL ZINC PLATED

MAXIMUM SUGGESTED PUSHING & PULLING FORCE BASED ON A MINIMUM SAFETY FACTOR OF 2

WBU SERIES

PART NUMBER	DESCRIPTION
SK-WBU-WCL-151000	1-1/2" BORE & 1" ROD
SK-WBU-WCL-201250	2" BORE & 1-1/4" ROD
SK-WBU-WCL-251500	2-1/2" BORE & 1-1/2" ROD
SK-WBU-WCL-301500	3" BORE & 1-1/2" ROD
SK-WBU-WCL-351750	3-1/2" BORE & 1-3/4" ROD
SK-WBU-WCL-402000	4" BORE & 2" ROD
SK-WBU-WCL-502500	5" BORE & 2-1/2" ROD

WCL SERIES

PART NUMBER	DESCRIPTION
SK-WBU-WCL-151000	1-1/2" BORE & 1" ROD
SK-WBU-WCL-201250	2" BORE & 1-1/4" ROD
SK-WBU-WCL-251500	2-1/2" BORE & 1-1/2" ROD
SK-WBU-WCL-301500	3" BORE & 1-1/2" ROD
SK-WBU-WCL-351750	3-1/2" BORE & 1-3/4" ROD
SK-WBU-WCL-402000	4" BORE & 2" ROD
SK-WBU-WCL-502500	5" BORE & 2-1/2" ROD

WTH SERIES

PART NUMBER	DESCRIPTION
SK-WTH-151000	1-1/2" BORE & 1" ROD
SK-WTH-201250	2" BORE & 1-1/4" ROD
SK-WTH-251375	2-1/2" BORE & 1-3/8" ROD
SK-WTH-301500	3" BORE & 1-1/2" ROD
SK-WTH-351750	3-1/2" BORE & 1-3/4" ROD
SK-WTH-402000	4" BORE & 2" ROD

WACL SERIES

PART NUMBER	DESCRIPTION
SK-WACL-151000	1-1/2" BORE & 1" ROD
SK-WACL-201125	2" BORE & 1-1/8" ROD
SK-WACL-251250	2-1/2" BORE & 1-1/4" ROD
SK-WACL-301500	3" BORE & 1-1/2" ROD
SK-WACL-351750	3-1/2" BORE & 1-3/4" ROD
SK-WACL-402000	4" BORE & 2" ROD

TTR25 SERIES

PART NUMBER	DESCRIPTION
SK-TTR25-201125	2" BORE & 1-1/8" ROD
SK-TTR25-251125	2-1/2" BORE & 1-1/8" ROD
SK-TTR25-251250	2-1/2" BORE & 1-1/4" ROD
SK-TTR25-301250	3" BORE & 1-1/4" ROD
SK-TTR25-301500	3" BORE & 1-1/2" ROD
SK-TTR25-351250	3-1/2" BORE & 1-1/4" ROD
SK-TTR25-351500	3-1/2" BORE & 1-1/2" ROD
SK-TTR25-401250	4" BORE & 1-1/4" ROD
SK-TTR25-401500	4" BORE & 1-1/2" ROD
SK-TTR25-401750	4" BORE & 1-3/4" ROD
SK-TTR25-402000	4" BORE & 2" ROD

TTR30 Series

PART NUMBER	DESCRIPTION
SK-TTR30-201125	2" BORE & 1-1/8" ROD
SK-TTR30-251250	2-1/2" BORE & 1-1/4" ROD
SK-TTR30-301250	3" BORE & 1-1/4" ROD
SK-TTR30-301500	3" BORE & 1-1/2" ROD
SK-TTR30-351375	3-1/2" BORE & 1-3/8" ROD
SK-TTR30-351500	3-1/2" BORE & 1-1/2" ROD
SK-TTR30-401500	4" BORE & 1-1/2" ROD
SK-TTR30-401750	4" BORE & 1-3/4" ROD
SK-TTR30-402000	4" BORE & 2" ROD
SK-TTR30-502000	5" BORE & 2" ROD

- Motors
- Filtration
- Valves
- Lubrication
- Pumps
- Cylinders
- Pneumatic
- Power Units
- Hose & Adapters
- Cartridge Valves
- Instrumentation
- Custom Manifolds
- Planetary Gearboxes
- Hydrostatic Transmissions
- Accessories

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